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PERFORMANCE MONITORING SYSTEM SUMMARY OF LOCK
STATISTICS FOR APRIL - JUNE 1985(U) CORPS OF ENGINEERS
FORT BELVOIR VA WATER RESOURCES SUPPORT CENTER

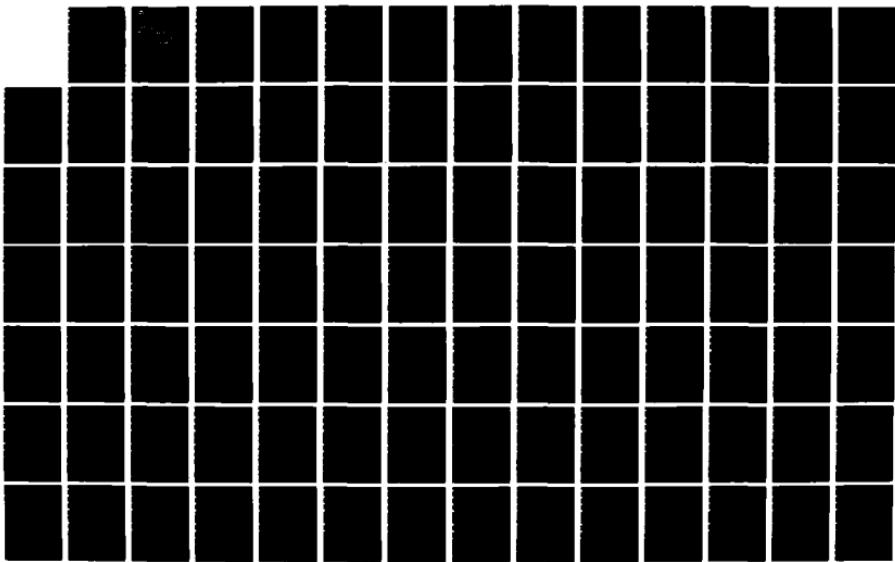
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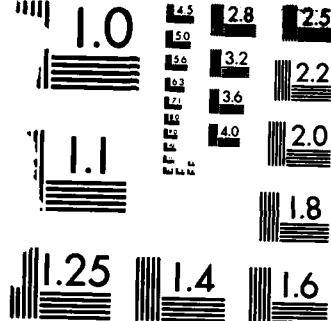
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Summary Report 85-SR-6

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) lock Performance Monitoring System PMS statistics		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Lock Performance Monitoring data are collected at Corps locks by lock operators from observation and information provided by waterway operators. This quarterly summary is an overview of the collected statistics.		

**PERFORMANCE MONITORING SYSTEM
SUMMARY OF LOCK STATISTICS
APRIL 1985 - JUNE 1985**

U.S. Army Corps of Engineers
Water Resources Support Center
Institute for Water Resources
Ft. Belvoir, Virginia 22060

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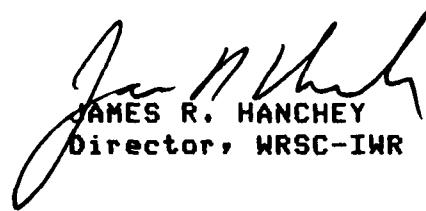
Summary Report 85-SR-6

PREFACE

This report is a product of the Navigation Data Management and Applications Branch of the U. S. Army Engineer Institute for Water Resources (WRSC-IWR). The information is compiled from statistics collected at the Corps locks in support of the lock Performance Monitoring System (PMS).

The study is managed by Miss Julie A. Oweis under the supervision of Mr. Francis M. Sharp, Chief of the WRSC-IWR Navigation Data Management and Applications Branch, and Dr. Lloyd G. Antle, Chief of the WRSC-IWR Navigation Division. The Office of the Chief of Engineers (OCE) sponsors are Mr. Robert Schmitt, DAEN-CWO-M, and Mr. Robert M. Daniel, DAEN-CWP-G.

Requests to update or change the distribution, comments and questions can be directed to Frank Sharp (202-355-3083) or Robert Baldwin (202-653-1007). The information is produced and distributed quarterly.



James R. HANCHAY
Director, WRSC-IWR

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Introduction

The lock Performance Monitoring System (PMS) is a part of the Inland Navigation Systems Analysis (INSA) program and encompasses the collection, editing, maintenance and analysis of data collected at all Corps-owned and operated locks. The data have been collected since March of 1975 and consist of information describing the traffic through the locks as well as the physical aspects of lockages. The quarterly summary of selected statistics presented in the appendix provides an overview of the traffic and operation at each lock. The quarterly report is presented as a set of three tables for each Corps District. Information reported for each lock and chamber include:

~~Data required for each lock:~~

TABLE 1. A listing providing the name of the lock, the river on which the lock is and its dimensions; In those cases where there is no quarterly information, this table will be the only display for the district.

TABLE 2. A table providing, by direction and total, the number of tows, commercial vessels other than tows, recreational vessels, barges (empty and loaded), commercial lockages, recreational lockages and tonnage,

TABLE 3. A summary of approach, entry, chambering and exit times. (maximum, minimum and average) and the number of delays, total delay time, maximum delay time and average delay time.

Although the summary information will be computed and displayed for chambers at which there is data for only one or two months of the quarter, the fact is noted on the report.

APPENDIX A

PAGE 1

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
B2	NEW ORLEANS	LOWER MISS VALLEY	4/85 5/85 6/85
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)	
ATCHAFALAYA RIVER	11-BERWICK LOCK	0307/0045/ 11.0	
BAYOU TECHE	31-KEYSTONE LOCK	0162/0036/ 12.0	
FRESHWATER BAYOU	41-FRESHWATER BAYOU LOCK	0600/0084/ 15.0	
GULF INTRACOASTAL	01-PORT ALLEN LOCK	1198/0084/ 15.0	
	02-BAYOU SORREL LOCK	0800/0056/ 16.0	
	03-INNER HRBR NAVIGATION CANL LK	0646/0075/ 40.0	
	04-ALGIERS LOCK	0797/0075/ 15.0	
	05-HARVEY LOCK	0425/0075/ 14.0	
	06-BAYOU BOEUF LOCK	1158/0075/ 15.0	
	07-VERMILLION LOCK	1200/0056/ 14.0	
	08-CALCASIEU LOCK	1205/0075/ 15.0	
	21-SCHOONER BAYOU CONTROL STRUCT	9999/0075/ 14.0	
	22-CATFISH POINT CONTROL STRUCT	9999/0056/ 16.0	
	23-CALCASIEU SALT WATER BARRIER	9999/0056/ 15.0	
OLD RIVER	51-OLD RIVER LOCK	1200/0075/ 15.0	

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
B3	ST LOUIS	LOWER MISS VALLEY	4/85 5/85 6/85
<hr/>			
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)	
KASKASKIA RIVER	01-KASKASKIA RIVER NAVAGATION LK	0610/0084/ 12.0	
MISSISSIPPI RIVER	24-LOCK & DAM 24	0610/0110/ 12.0	
	25-LOCK & DAM 25	0610/0110/ 12.0	
	26-LOCK & DAM 26	0610/0110/ 12.0	
	26-LOCK & DAM 26 AUX 1	0380/0110/ 12.0	
	27-CHAIN OF ROCKS LOCK & DAM 27	1210/0110/ 12.0	
	27-CHAIN OF ROCKS LK & DM 27 AX1	0610/0110/ 12.0	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EPC	DISTRICT NAME	DIVISION NAME						MONTHS REPORTED					
		LOWER MISS VALLEY						4/85		5/85		6/85	
RIVER/LOCK NAME	TOWS	VESSL RECRTH	VESSL OTHER	VESSL TOTAL	FARGE EMPTY	BARGE FULL	BARGES TOTAL	LOCKGES COMMER	LOCKGES RECRTH	LOCKGES OTHER	LOCKGES TOTAL	TONNAGE (BAU, DPM, ETC)	
MACKINAW RIVER													
KASKASKIA RIVER NAVIGATION LK	***												
UPBOUND STATISTICS	212	357	71	640	650	152	802	284	169	1	454	143	
DNBOUND STATISTICS	221	333	81	616	120	967	787	284	164	1	449	941	
TOTAL	414	690	152	1256	770	919	1589	565	333	2	903	1084	
MISSISSIPPI RIVER													
LOCK & DAM 24	***												
UPBOUND STATISTICS	413	153	3	574	3071	1979	5050	675	135	19	830	2911	
DNBOUND STATISTICS	409	141	10	560	211	4355	4567	662	120	20	802	6182	
TOTAL	822	294	18	1134	3283	6334	9617	1338	255	39	1632	9094	
LOCK & DAM 25	***												
UPBOUND STATISTICS	412	365	35	610	3033	1989	5032	663	222	18	903	2925	
DNBOUND STATISTICS	412	339	39	740	213	4385	4595	654	191	19	864	6223	
TOTAL	822	704	74	1600	3235	6374	9620	1317	413	37	1767	9149	
LOCK & DAM 26	***												
UPBOUND STATISTICS	664	11	13	688	4392	3308	8000	1175	7	8	1190	4967	
DNBOUND STATISTICS	700	6	7	713	610	7312	7922	1224	5	6	1235	10408	
TOTAL	1364	17	20	1401	5302	10620	15922	2399	12	14	2425	15376	
LOCK & DAM 26 AUX 1	***												
UPBOUND STATISTICS	257	222	105	594	384	326	710	452	122	18	592	581	
DNBOUND STATISTICS	257	211	109	577	272	492	764	459	122	16	597	776	
TOTAL	524	433	214	1171	656	818	1474	911	244	34	1189	1358	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES**

EROC 83	DISTRICT NAME ST LOUIS	DIVISION NAME LOWER MISS VALLEY		MONTHS REPORTED									
					4/85			5/85			6/85		
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
(NAV, OPN, ETC)													
MISSISSIPPI RIVER													
CHAIN OF ROCKS LOCK & DAM 27	xxx												
UPBOUND STATISTICS	1148	140	176	1464	5682	3937	9619	1160	50	33	1243	5996	
DNBOUND STATISTICS	1172	112	164	1448	1010	8601	9611	1190	43	31	1264	12705	
TOTAL	2320	252	340	2912	6692	12538	19230	2350	93	64	2507	18701	
CHAIN OF ROCKS LK & DM 27 AX1	xxx												
UPBOUND STATISTICS	0	0	0	0	0	0	0	0	0	0	0	0	
DNBOUND STATISTICS	0	5	0	5	0	0	0	0	3	0	3	0	
TOTAL	0	5	0	5	0	0	0	0	3	0	3	0	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC R3	DISTRICT NAME ST LOUIS	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED														
			4/85				5/85				6/85						
APPROACH			LOCK PROCESSING TIME (MIN.)						: VESSELS			DELAYED	DELAY	DELAY	DELAY		
			MIN	AVG	MAX	:	MIN	Avg	MAX	MIN	Avg	MAX	:	TOWS	TOWS	(ALL VSLs)	
KASKASKIA RIVER																	
KASKASKIA RIVER NAVACATION L	1	4	25	1	3	30	5	8	35	1	3	25	:	31	313	0.7	78
MISSISSIPPI RIVER																	
LOCK & DAM 24	1	9	128	1	6	41	4	8	59	1	15	50	:	546	62035	75.4	594
LOCK & DAM 25	1	8	93	1	7	33	4	7	30	1	13	51	:	814	76308	92.8	627
LOCK & DAM 26	1	5	440	1	9	53	2	11	60	1	12	74	:	1364	325350	238.5	2519
LOCK & DAM 26 AUX 1	1	5	65	1	4	56	4	10	39	1	7	110	:	518	28956	55.2	2554
CHAIN OF ROCKS LOCK & DAM 27	1	7	46	1	6	28	5	11	58	1	6	25	:	1845	155799	67.1	1640
CHAIN OF ROCKS LK & DM 27 4X	1	1	2	1	1	3	9	10	12	1	1	1	:	0	0	0.0	0

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
B4	VICKSBURG	LOWER MISS VALLEY	4/85 5/85 6/85
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)
OUCHITA/BLACK RIV	01-JONESVILLE LOCK & DAM		0600/0084/ 23.0
	02-COLUMBIA LOCK & DAM		0600/0084/ 27.0
	03-FELSENTHAL LOCK & DAM		0600/0084/ 11.0
	04-CALION LOCK & DAM		0600/0084/ 11.0
	06-LOCK & DAM 6		0268/0055/ 17.0
	08-LOCK & DAM 8		0268/0055/ 19.0
RED RIVER	41-RED RIVER LOCK & DAM #1		0685/0084/ 9.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC B4	DISTRICT NAME VICKSBURG	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED													
			4/85				5/85				6/85					
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	(NAV, DPN, ETC)			
RED RIVER																
LOCK & DAM 8		***	NO DATA RECORDED FOR THIS LOCK													
RED RIVER LOCK & DAM #1		***														
UPBOUND STATISTICS	193	1	43	237	10	466	476	228	1	7	236	590				
DNBOUND STATISTICS	170	9	69	248	458	12	470	233	5	10	248	7				
TOTAL	363	10	112	485	468	478	946	461	6	17	484	597				

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC B4	DISTRICT NAME VICKSBURG	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED														
			4/85				5/85				6/85						
APPROACH			LOCK PROCESSING TIME (MIN.)				: VESSELS			DELAYED			DELAY	DELAY			
			MIN	AVG	MAX	:	MIN	Avg	Max	MIN	Avg	Max	TIME	Avg	Max		
OUCHITA/BLACK RIV																	
JONESVILLE LOCK & DAM		1	6	20	1	3	25	2	12	40	2	6	18	8	62	1.3	30
COLUMBIA LOCK & DAM		2	5	12	1	4	10	5	14	30	3	7	18	1	2	0.1	2
FELSENTHAL LOCK & DAM		1	2	12	1	2	10	5	8	35	1	2	12	13	51	3.9	20
CALION LOCK & DAM		1	2	13	1	1	21	5	8	29	1	2	10	8	12	1.5	15
RED RIVER																	
RED RIVER LOCK & DAM #1		1	5	40	1	4	21	2	10	42	2	5	28	354	3898	10.7	295

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
E3	NEW YORK	NORTH ATLANTIC	4/85 5/85 6/85
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)	
HUDSON RIVER	01-TROY LOCK & DAM	0493/0044/ 15.0	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME		MONTHS REPORTED									
				NORTH ATLANTIC		4/85			5/85			6/85	
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
HUDSON RIVER													
TROY LOCK & DAM		***											
UPBOUND STATISTICS	33	765	1	799	4	35	39	28	478	34	540	64	
DNBOUND STATISTICS	27	422	4	453	26	1	27	33	268	40	341	0	
TOTAL	60	1187	5	1252	30	36	66	61	746	74	881	64	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC DISTRICT NAME DIVISION NAME MONTHS REPORTED
 E3 NEW YORK NORTH ATLANTIC 4/85 5/85 6/85
 APPROACH ENTRY CHAMBER EXIT : VESSELS TIME AVG MAX
 MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : TOWS TOWS (ALL VSLs)
 HUDSON RIVER
 TROY LOCK & DAM 1 7 15 2 5 15 3 10 15 1 4 10 32 301 5.0 111

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E4	NORFOLK	NORTH ATLANTIC	4/85	5/85	6/85
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)			
ATLANT INTROASTAL	11-GREAT BRIDGE GUARD LOCK	0530/0072/ 12.0			
DISMAL SWAMP	01-DEEP CREEK LOCK	0300/0052/ 6.0			
	02-SOUTH MILLS LOCK	0300/0052/ 6.0			

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES**

ELOC E4	DISTRICT NAME NORFOLK	DIVISION NAME NORTH ATLANTIC				MONTHS REPORTED								
		TOWS	VESSEL RECRDN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECPNTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (NETONS)	
ATLANTIC INTRACOASTAL														
GREAT BRIDGE GUARD LOCK		***												
UPBOUND STATISTICS		147	3392	37	3575	123	70	202	180	1030	76	1296	83	
DNBOUND STATISTICS		153	1002	47	1202	141	118	259	178	420	71	669	94	
TOTAL		300	4394	64	4778	264	197	461	358	1450	147	1955	177	
DISMAL SWAMP		***												
DEEP CREEK LOCK		***												
UPBOUND STATISTICS		5	136	12	153	3	4	7	6	70	8	84	0	
DNBOUND STATISTICS		5	333	9	347	3	6	9	5	159	5	169	0	
TOTAL		10	469	21	500	6	10	16	11	229	13	253	0	
SOUTH MILLS LOCK		***												
UPBOUND STATISTICS		0	328	0	328	0	0	0	2	167	0	169	0	
DNBOUND STATISTICS		1	135	0	136	1	0	1	1	68	4	73	0	
TOTAL		1	463	0	464	1	0	1	2	235	4	242	0	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC E4	DISTRICT NAME NORFOLK	DIVISION NAME NORTH ATLANTIC	MONTHS REPORTED																									
			4/85			5/85			6/85																			
LOCK PROCESSING TIME (MIN.)																												
APPROACH ENTRY CHAMBER EXIT																												
MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX :																												
ATLANT INTROCOASTAL																												
GREAT BRIDGE GUARD LOCK	1	3	25	1	4	22	1	5	30	1	4	35	300	1385	4.6	42												
DISMAL SWAMP																												
DEEP CREEK LOCK	1	5	10	2	4	10	3	8	15	4	5	15	9	37	3.7	35												
SOUTH MILLS LOCK	3	4	14	3	4	10	5	10	20	4	4	9	0	0	0.0	150												

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F1	BUFFALO	NORTH CENTRAL	4/85	5/85	6/85
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
BLK ROCK CH/TONAWANDA	01-BLACK ROCK LOCK		9650/0070/ 21.0		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC F1	DISTRICT NAME BUFFALO	DIVISION NAME NORTH CENTRAL				MONTHS REPORTED							
		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
BLK ROCK CH/TONAWANDA													
BLACK ROCK LOCK		xxx											
UPBOUND STATISTICS		10	1416	7	1433	9	1	10	119	309	28	456	8
DNBOUND STATISTICS		11	1182	1	1194	2	10	12	25	316	21	362	92
TOTAL		21	2598	8	2627	11	11	22	144	625	49	818	101

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT

FOR THE PERIOD 4/85 THROUGH 6/85

INSTITUTE FOR WATER RESOURCES

EROC F1	DISTRICT NAME BUFFALO	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED													
			4/85			5/85			6/85							
APPROACH	LOCK PROCESSING TIME (MIN.)			: VESSELS	TIME	TOWS	TOWE	(ALL VSL'S)	DELAYED	DELAY	DELAY	DELAY				
	MIN	AVG	MAX		MIN	AVG	MAX		MIN	AVG	MAX	MIN	TOWS	TOWE		
BLK ROCK CH/TONAWANDA																
BLACK ROCK LOCK	1	1	4	1	1	3	2	12	20	1	1	8	3	3	0.1	30

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
F2	CHICAGO	NORTH CENTRAL	4/85 5/85 6/85
RIVER	LOCK/LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)
CHICAGO HARBOUR	01-CHICAGO LOCK		0600/0080/ 21.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LOCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F3	DETROIT	NORTH CENTRAL	4/85	5/85	6/85
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
FOX RIVER	11-DE PERE LOCK & DAM		0146/0036/	6.0	
	12-LITTLE KAUKAUNA LOCK & DAM		0146/0036/	6.0	
	13-RAPIDE CROCHE LOCK & DAM		0146/0036/	6.0	
	21-KAUKAUNA LOCK 1		0144/0035/	6.0	
	22-KAUKAUNA LOCK 2		0144/0035/	6.0	
	23-KAUKAUNA LOCK 3		0144/0031/	6.0	
	24-KAUKAUNA LOCK 4		0144/0037/	6.0	
	25-KAUKAUNA LOCK 5		0144/0036/	6.0	
	32-LITTLE CHUTE LOCK 2		0147/0035/	6.0	
	33-LITTLE CHUTE COMB LOCKS UPPER		0144/0036/	6.0	
	34-LITTLE CHUTE COMB LOCKS LOWER		0147/0035/	6.0	
	35-CEDARS LOCK & DAM		0144/0035/	6.0	
	41-APPLETON LOCK 1		0145/0034/	6.0	
	42-APPLETON LOCK 2		0145/0035/	6.0	
	43-APPLETON LOCK 3		0144/0035/	6.0	
	44-APPLETON LOCK 4		0144/0035/	6.0	
THE INLAND ROUTE	51-MENASHA LOCK & DAM		0144/0034/	6.0	
ST MARYS RIVER	61-ALANSON LOCK		0066/0018/	7.0	
	01-MACARTHUR LOCK		0800/0080/	31.0	
	02-NEW POE LOCK		1200/0110/	32.0	
	03-DAVIS LOCKOO		1350/0090/	23.0	
	04-SABIN LOCKOO		1350/0080/	23.0	

NO DATA RECORDED ON SUMMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
F4	ROCK ISLAND	NORTH CENTRAL	4/85 5/85 6/85
<hr/>			
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)	
ILLINOIS	01-TOMAS J O'BRIEN	1000/0110/ 12.0	
	02-LOCKPORT LOCK	0600/0110/ 12.0	
	03-BRANDON ROAD LOCK & DAM	0600/0110/ 12.0	
	04-DRESDEN ISLAND LOCK & DAM	0600/0110/ 12.0	
	05-MARSIELLES LOCK & DAM	0600/0110/ 12.0	
	06-STARVED ROCK LOCK & DAM	0600/0110/ 12.0	
	07-PEORIA LOCK & DAM	0600/0110/ 12.0	
	08-LAGRANGE LOCK & DAM	0600/0110/ 12.0	
MISSISSIPPI RIVER	11-LOCK & DAM 11	0600/0110/ 10.0	
	12-LOCK & DAM 12	0600/0110/ 10.0	
	13-LOCK & DAM 13	0600/0110/ 10.0	
	14-LOCK & DAM 14	0600/0110/ 10.0	
	14-LOCK & DAM 14 AUXILIARY 1	0320/0080/ 10.0	
	15-LOCK & DAM 15	0600/0110/ 10.0	
	15-LOCK & DAM 15 AUXILIARY 1	0360/0110/ 10.0	
	16-LOCK & DAM 16	0600/0110/ 10.0	
	17-LOCK & DAM 17	0600/0110/ 10.0	
	18-LOCK & DAM 18	0600/0110/ 10.0	
	19-LOCK & DAM 19	1200/0110/ 10.0	
	19-LOCK & DAM 19 AUXILIARY 1	1350/0110/ 10.0	
	20-LOCK & DAM 20	0600/0110/ 10.0	
	21-LOCK & DAM 21	0600/0110/ 10.0	
	22-LOCK & DAM 22	0600/0110/ 10.0	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL						MONTHS REPORTED					
								4/85		5/85		6/85	
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTOMS) (NAV, DPN, ETC)	
ILLINOIS													
THOMAS J O'BRIEN		xxx											
UPBOUND STATISTICS	326	2829	51	3206	327	577	904	370	82	9	1241	846	
DNBOUND STATISTICS	323	2156	63	2542	420	500	920	382	618	10	1010	785	
TOTAL	649	4985	114	5748	747	1077	1824	752	1480	19	2251	1632	
LOCKPORT LOCK		xxx											
UPBOUND STATISTICS	494	176	61	731	386	1962	2348	529	67	3	599	2858	
DNBOUND STATISTICS	500	95	62	657	1546	803	2349	547	40	2	589	1231	
TOTAL	994	271	123	1368	1932	2765	4697	1076	107	5	1188	4089	
BRANDON ROAD LOCK & DAM		xxx											
UPBOUND STATISTICS	502	182	135	819	439	1978	2417	575	81	2	558	2907	
DNBOUND STATISTICS	491	85	134	710	1490	870	2360	585	46	2	633	1326	
TOTAL	993	267	269	1529	1929	2848	4777	1160	127	4	1291	4233	
DRESDEN ISLAND LOCK & DAM		xxx											
UPBOUND STATISTICS	413	423	42	876	537	2072	2609	516	203	9	728	3079	
DNBOUND STATISTICS	415	382	36	835	1480	1094	2574	521	175	8	704	1784	
TOTAL	828	805	80	1713	2017	3166	5183	1037	378	17	1432	4864	
MARSIELLES LOCK & DAM		xxx											
UPBOUND STATISTICS	389	368	24	781	736	1923	2659	510	194	6	710	2976	
DNBOUND STATISTICS	389	396	22	807	1261	1406	2667	515	194	9	716	2235	
TOTAL	778	764	46	1588	1997	3329	5326	1025	388	15	1428	5212	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL		MONTHS REPORTED									
RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
(NAV, OPN, ETC)													
ILLINOIS													
STARVED ROCK LOCK & DAM	xxx												
UPBOUND STATISTICS	401	375	20	796	952	1925	2877	543	166	5	714	2984	
DNBOUND STATISTICS	405	386	15	805	1228	1693	2921	554	179	9	742	2649	
TOTAL	806	761	35	1602	2180	3618	5798	1097	345	14	1456	5634	
PEORIA LOCK & DAM	xxx												
UPBOUND STATISTICS	430	337	32	799	1469	2147	3616	326	172	244	742	3362	
DNBOUND STATISTICS	449	319	20	788	1223	2572	3795	342	167	249	758	3797	
TOTAL	879	656	52	1587	2692	4719	7411	668	339	493	1500	7159	
LAGRANGE LOCK & DAM	xxx												
UPBOUND STATISTICS	399	368	12	779	1782	1601	3383	254	132	253	639	2609	
DNBOUND STATISTICS	418	348	15	781	628	3094	3722	264	132	273	669	4541	
TOTAL	817	716	27	1560	2410	4695	7105	518	264	526	1308	7151	
MISSISSIPPI RIVER													
LOCK & DAM 11	xxx												
UPBOUND STATISTICS	273	508	29	810	1793	1193	2986	406	353	6	765	1752	
DNBOUND STATISTICS	277	472	31	780	121	2610	2731	403	334	6	743	3764	
TOTAL	550	980	60	1590	1914	3803	5717	809	687	12	1508	5516	
LOCK & DAM 12	xxx												
UPBOUND STATISTICS	285	440	12	737	1924	1352	3276	430	318	5	753	1972	
DNBOUND STATISTICS	284	475	21	780	117	2894	3011	427	336	6	769	4126	
TOTAL	569	915	33	1517	2041	4246	6287	857	654	11	1522	6098	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES**

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL				MONTHS REPORTED							
						4/85		5/85		6/85			
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
MISSISSIPPI RIVER													
LOCK & DAM 13		***											
UPBOUND STATISTICS	287	509	10	806	1946	1363	3309	435	301	7	743	2000	
DNBOUND STATISTICS	284	496	19	799	124	2874	2998	438	254	4	696	4112	
TOTAL	571	1005	29	1605	2070	4237	6307	873	555	11	1439	6113	
LOCK & DAM 14		***											
UPBOUND STATISTICS	404	266	20	690	2432	1665	4097	628	196	18	842	2410	
DNBOUND STATISTICS	399	256	32	687	191	3518	3709	606	178	18	802	4822	
TOTAL	803	522	52	1377	2623	5183	7806	1234	374	36	1644	7232	
LOCK & DAM 14 AUXILIARY 1		*** ONLY SECOND AND THIRD MONTHS REPORTED											
UPBOUND STATISTICS	0	1162	0	1162	0	0	0	1	279	0	280	0	
DNBOUND STATISTICS	0	1152	0	1152	0	0	0	2	280	0	282	0	
TOTAL	0	2314	0	2314	0	0	0	3	559	0	562	0	
LOCK & DAM 15		***											
UPBOUND STATISTICS	375	33	30	438	2193	1749	3942	652	32	6	690	2558	
DNBOUND STATISTICS	367	61	38	466	232	3271	3503	623	18	9	650	4650	
TOTAL	742	94	68	904	2425	5020	7445	1275	50	15	1340	7209	
LOCK & DAM 15 AUXILIARY 1		***											
UPBOUND STATISTICS	38	967	35	1040	34	16	60	74	408	5	487	25	
DNBOUND STATISTICS	39	815	36	890	49	1	55	74	400	5	479	8	
TOTAL	77	1782	71	1930	83	32	115	148	808	10	966	34	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES**

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED											
			4/85				5/85				6/85			
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)		
MISSISSIPPI RIVER														
LOCK & DAM 16	***													
UPBOUND STATISTICS	399	227	30	656	2439	1842	4281	639	202	21	862	2696		
DNBOUND STATISTICS	384	294	39	717	250	3532	3782	599	200	20	819	5007		
TOTAL	783	521	69	1373	2689	5374	8063	1238	402	41	1681	7704		
LOCK & DAM 17	***													
UPBOUND STATISTICS	391	155	13	559	2414	2084	4498	633	161	14	808	3034		
DNBOUND STATISTICS	380	191	12	583	358	3619	3977	603	136	12	751	5124		
TOTAL	771	346	25	1142	2772	5703	8475	1236	297	26	1559	8158		
LOCK & DAM 18	***													
UPBOUND STATISTICS	388	253	16	657	2516	2076	4592	611	255	13	879	3038		
DNBOUND STATISTICS	381	315	21	717	337	3796	4133	590	243	13	846	5377		
TOTAL	769	568	37	1374	2853	5872	8725	1201	498	26	1725	8416		
LOCK & DAM 19	***													
UPBOUND STATISTICS	390	192	26	598	2723	2000	4723	401	93	9	503	2923		
DNBOUND STATISTICS	382	186	34	602	295	4005	4300	393	81	8	482	5672		
TOTAL	762	378	60	1200	3018	6005	9023	794	174	17	985	8595		
LOCK & DAM 19 AUXILIARY 1	***	NO DATA RECORDED FOR THIS LOCK												
LOCK & DAM 20	***													
UPBOUND STATISTICS	394	110	56	560	2781	2013	4794	695	114	18	827	2941		
DNBOUND STATISTICS	396	102	48	546	286	4024	4310	668	91	18	777	5685		
TOTAL	790	212	104	1106	3067	6037	9104	1363	205	36	1604	8627		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL		MONTHS REPORTED								
					4/85			5/85			6/85	
RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
MISSISSIPPI RIVER												
LOCK & DAM 21	xxx											
UPBOUND STATISTICS	387	167	29	583	2850	1944	4794	648	158	17	823	2959
DNBOUND STATISTICS	381	148	27	556	180	4098	4278	638	132	15	785	5790
TOTAL	768	315	56	1139	3030	6042	9072	1286	290	32	1608	8650
LOCK & DAM 22	xxx											
UPBOUND STATISTICS	381	191	20	592	2855	1947	4802	646	145	14	805	2845
DNBOUND STATISTICS	389	162	11	562	183	4185	4368	643	113	14	770	5943
TOTAL	770	353	31	1154	3038	6132	9170	1289	258	28	1575	8789

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED																									
			4/85				5/85				6/85																	
LOCK PROCESSING TIME (MIN.)																												
		APPROACH	ENTRY	CHAMBER			EXIT	:			VESSELS	TIME	DELAY	DELAY														
		MIN	Avg	MAX	MIN	Avg	MAX	MIN	Avg	MAX	TOWS	TOWS	Avg	Max														
(ALL VESLS)																												
ILLINOIS																												
THOMAS J O'BRIEN	1	2	36	1	1	29	2	15	42	1	1	124	158	2299	3.5	135												
LOCKPORT LOCK	1	8	91	1	10	51	2	32	170	1	9	74	794	64998	65.3	1325												
BRANDON ROAD LOCK & DAM	1	10	68	1	11	427	3	24	400	1	10	90	739	71121	71.6	1522												
DRESDEN ISLAND LOCK & DAM	1	7	138	1	8	48	1	15	78	1	10	63	456	31528	38.0	465												
MARSIELLES LOCK & DAM	1	8	101	1	6	427	3	18	44	1	13	72	487	55555	71.4	820												
STARVED ROCK LOCK & DAM	1	6	60	1	8	52	2	15	73	1	12	63	374	38584	47.8	495												
PEORIA LOCK & DAM	1	4	58	1	7	46	1	7	36	1	10	56	651	34966	39.7	1441												
LAGRANGE LOCK & DAM	1	5	105	1	6	59	1	5	46	1	9	100	593	19411	23.7	990												
MISSISSIPPI RIVER																												
LOCK & DAM 11	1	7	159	1	6	31	1	9	37	1	11	58	260	19957	36.2	350												

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL										MONTHS REPORTED								
					LOCK PROCESSING TIME (MIN.)			: VESSELS			4/85			5/85			6/85			
		APPROACH			ENTRY			CHAMBER			EXIT			: VESSELS			TIME	Avg	Max	
		MIN	AVG	MAX	:	MIN	Avg	MAX	:	MIN	Avg	MAX	:	MIN	Avg	Tows	Tows	(All USLS)		
MISSISSIPPI RIVER																				
LOCK & DAM 12		1	7	73		1	6	29		1	6	27		1	11	92	245	20060	35.2	380
LOCK & DAM 13		1	5	74		1	6	34		1	7	408		1	11	57	215	17105	29.9	1525
LOCK & DAM 14		1	7	111		1	7	37		2	8	69		1	13	185	404	41540	51.7	1505
LOCK & DAM 14 AUXILIARY 1		1	1	1		1	1	3		1	11	37		1	1	8	0	0	0.0	0
LOCK & DAM 15		1	10	90		1	8	395		1	9	359		1	16	89	355	41780	56.3	745
LOCK & DAM 15 AUXILIARY 1		1	1	63		1	1	51		2	10	134		1	1	18	19	218	2.6	43
LOCK & DAM 16		1	9	68		1	7	30		1	7	127		1	14	85	431	36329	46.3	465
LOCK & DAM 17		1	10	203		1	7	40		1	9	48		1	13	87	496	246781	320.0	5537
LOCK & DAM 18		1	8	93		1	7	32		1	6	49		1	13	55	455	43249	56.2	425
LOCK & DAM 19		1	16	76		1	7	36		2	16	441		1	8	33	305	17201	22.5	202

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED															
			4/85			5/85			6/85									
LOCK PROCESSING TIME (MIN.)																		
			APPROACH	ENTRY	CHAMBER	EXIT	:	VESSELS	TIME	Avg	Max							
			MIN	Avg	MAX	MIN	AVG	MAX	MIN	Avg	Max	TOWS	TOWS	(ALL VSLs)				
MISSISSIPPI RIVER																		
LOCK & DAM 20			1	7	404	1	7	28	1	6	429	1	15	93	400	40413	51.1	630
LOCK & DAM 21			1	9	96	1	8	67	1	5	36	1	15	83	408	34416	44.8	290
LOCK & DAM 22			1	14	148	1	9	72	1	6	72	1	18	102	504	74451	96.6	1440

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC FS	DISTRICT NAME ST PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED 4/85	5/85	6/85
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
MISSISSIPPI RIVER	01-LOCK & DAM 1 MAIN CHBR 1		0400/0056/ 11.0		
	01-LOCK & DAM 1 MAIN CHBR 2		0400/0056/ 11.0		
	02-LOCK & DAM 2		0600/0110/ 11.0		
	02-LOCK & DAM 2 AUXILIARY 1		0500/0110/ 11.0		
	03-LOCK & DAM 3		0600/0110/ 11.0		
	04-LOCK & DAM 4		0600/0110/ 11.0		
	05-LOCK & DAM 5		0600/0110/ 11.0		
	06-LOCK & DAM 6		0600/0110/ 11.0		
	07-LOCK & DAM 7		0600/0110/ 11.0		
	08-LOCK & DAM 8		0600/0110/ 11.0		
	09-LOCK & DAM 9		0600/0110/ 11.0		
	10-LOCK & DAM 10		0600/0110/ 11.0		
	51-ST ANTHONY FALLS UPPER L & D		0400/0056/ 11.0		
	52-ST ANTHONY FALLS LOWER L & D		0400/0056/ 11.0		
	55-LOCK & DAM 5A		0600/0110/ 11.0		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST PAUL	DIVISION NAME NORTH CENTRAL						MONTHS REPORTED					
		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, DPN, ETC)
MISSISSIPPI RIVER													
LOCK & DAM 1 MAIN CHBR 1		***											
UPBOUND STATISTICS		244	694	33	971	195	226	421	286	357	6	649	308
DNBOUND STATISTICS		243	697	42	982	205	209	414	286	354	6	646	310
TOTAL		487	1391	75	1953	400	435	835	572	711	12	1295	618
LOCK & DAM 1 MAIN CHBR 2		***	NO DATA RECORDED FOR THIS LOCK										
LOCK & DAM 2		***											
UPBOUND STATISTICS		329	1136	108	1573	2301	603	2904	419	466	12	897	869
DNBOUND STATISTICS		327	1211	110	1648	55	2669	2724	417	496	8	921	3869
TOTAL		656	2347	218	3221	2356	3272	5628	836	962	20	1818	4738
LOCK & DAM 2 AUXILIARY 1		***	NO DATA RECORDED FOR THIS LOCK										
LOCK & DAM 3		***											
UPBOUND STATISTICS		263	1528	7	1798	1929	609	2538	330	618	13	961	885
DNBOUND STATISTICS		263	1697	17	1977	53	2248	2301	327	669	8	1004	3292
TOTAL		526	3225	24	3775	1982	2857	4839	657	1287	21	1965	4178
LOCK & DAM 4		***											
UPBOUND STATISTICS		262	897	5	1164	2018	608	2626	329	513	111	953	879
DNBOUND STATISTICS		262	873	7	1142	51	2383	2434	331	493	103	927	3489
TOTAL		524	1770	12	2306	2069	2991	5060	660	1006	214	1880	4369
LOCK & DAM 5		***											
UPBOUND STATISTICS		258	562	6	826	1918	654	2572	344	371	52	767	961
DNBOUND STATISTICS		256	553	9	818	53	2313	2366	346	348	38	732	3383
TOTAL		514	1115	15	1644	1971	2967	4938	690	719	90	1499	4345

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST PAUL	DIVISION NAME NORTH CENTRAL				MONTHS REPORTED							
		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
MISSISSIPPI RIVER													
LOCK & DAM 6		***											
UPBOUND STATISTICS		261	639	9	909	2028	702	2730	346	466	20	932	1029
DNBOUND STATISTICS		260	589	12	861	54	2489	2543	349	439	20	808	3631
TOTAL		521	1228	21	1770	2082	3191	5273	695	905	40	1640	4560
LOCK & DAM 7		***											
UPBOUND STATISTICS		261	1240	27	1528	2025	717	2742	354	667	27	1043	1040
DNBOUND STATISTICS		261	1215	31	1507	64	2478	2542	339	633	24	996	3626
TOTAL		522	2455	58	3035	2089	3195	5284	693	1300	51	2044	4666
LOCK & DAM 8		***											
UPBOUND STATISTICS		261	522	3	786	2026	799	2825	354	355	13	722	1172
DNBOUND STATISTICS		261	498	20	779	73	2544	2617	360	333	13	706	3686
TOTAL		522	1020	23	1565	2099	3343	5442	714	688	26	1423	4856
LOCK & DAM 9		***											
UPBOUND STATISTICS		253	499	1	753	1697	1105	2802	349	362	6	717	1612
DNBOUND STATISTICS		251	489	4	744	96	2481	2577	347	344	9	700	3599
TOTAL		504	988	5	1497	1793	3586	5379	695	706	15	1417	5211
LOCK & DAM 10		***											
UPBOUND STATISTICS		282	671	7	960	1874	1112	2986	383	461	7	851	1619
DNBOUND STATISTICS		274	659	15	947	102	2610	3713	374	470	11	855	3774
TOTAL		556	1329	22	1907	1977	3722	5699	757	931	18	1706	5393

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

FRCG FS	DISTRICT NAME ST PAUL	DIVISION NAME NORTH CENTRAL				MONTHS REPORTED							
		TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)
MISSISSIPPI RIVER													
ST ANTHONY FALLS UPPER L & D		***											
UPBOUND STATISTICS		172	372	44	588	167	97	264	214	214	3	431	145
DNEBOUND STATISTICS		177	427	36	640	79	172	251	210	250	3	463	253
TOTAL		349	799	80	1228	246	269	515	424	464	6	894	399
ST ANTHONY FALLS LOWER L & D		***											
UPBOUND STATISTICS		246	363	30	639	194	232	426	277	216	8	501	317
DNEBOUND STATISTICS		242	430	33	705	203	208	411	273	241	8	522	306
TOTAL		488	793	63	1344	397	440	837	550	457	16	1023	623
LOCK & DAM 5A		***	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS		258	1020	65	1343	1941	647	2588	433	518	31	982	942
DNEBOUND STATISTICS		258	932	60	1250	55	2318	2373	390	537	30	957	3393
TOTAL		516	1952	125	2593	1996	2965	4961	823	1055	61	1939	4336

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED													
			4/85				5/85				6/85					
			LOCK PROCESSING TIME (MIN.)			: DELAYED			DELAY			DELAY				
			APPROACH	ENTRY	CHAMBER	EXIT	: VESSELS	TIME	TOWS	TOWS	TOWS	Avg	Max	All Vessels		
			MIN AVG MAX : MIN	AVG MAX : MIN	AVG MAX : MIN	AVG MAX : MIN	AVG MAX : MIN	AVG	AVG	AVG	AVG	AVG	AVG	AVG		
MISSISSIPPI RIVER																
LOCK & DAM 1 MAIN CHER 1	1	3	15	1	4	17	4	11	56	1	3	17	54	938	1.7	44
LOCK & DAM 2	1	6	90	1	6	55	4	8	39	1	8	77	311	21397	32.6	318
LOCK & DAM 3	1	5	110	1	5	55	1	5	55	1	8	55	222	14098	36.8	341
LOCK & DAM 4	1	6	113	1	5	37	4	5	17	1	9	75	236	15477	39.5	510
LOCK & DAM 5	1	6	79	1	5	33	4	7	19	1	9	69	197	10607	31.0	692
LOCK & DAM 6	1	7	80	1	5	60	4	5	55	1	6	65	227	12528	24.0	270
LOCK & DAM 7	1	5	81	1	5	40	4	5	14	1	8	53	243	14172	27.1	245
LOCK & DAM 8	1	7	72	1	6	73	3	6	26	1	12	65	204	11570	22.1	665
LOCK & DAM 9	1	8	97	1	6	51	3	5	55	1	11	55	161	11392	22.6	325
LOCK & DAM 10	1	5	119	1	5	30	4	5	55	1	9	52	214	14115	25.3	601

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

FRC FS	DISTRICT NAME ST PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED													
			4/85				5/85				6/85					
			LOCK PROCESSING TIME (MIN.)				JESSELS				DELAYED	DELAY	DELAY	DELAY		
			APPROACH	ENTRY	CHAMBER	EXIT	APPROACH	ENTRY	CHAMBER	EXIT	TOWS	TOWS	Avg	Max		
			MIN	Avg	Max	Min	MIN	Avg	Max	Min	Avg	Max	Total	All VSLs		
MISSISSIPPI RIVER																
ST ANTHONY FALLS UPPER L & C	1	2	25	1	3	46	6	7	30	1	2	25	24	447	1.2	52
ST ANTHONY FALLS LOWER L & D	1	2	54	1	3	23	3	11	53	1	2	18	72	1528	3.1	66
LOCK & DAM 5A	1	5	78	1	4	75	3	5	18	1	7	53	218	12169	23.5	195

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

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EROC G2	DISTRICT NAME PORTLAND	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED 4/85	5/85	6/85
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
COLUMBIA RIVER	01-BONNEVILLE LOCK & DAM		0500/0075/	15.0	
	02-THE DALLES DAM		0675/0086/	15.0	
	03-JOHN DAY LOCK & DAM		0675/0086/	15.0	
WILLAMETTE RIVER	11-WILLAMETTE FALLS LOCKS 1 - 4		0210/0040/	6.0	
	15-WILLAMETTE FALLS GUARD LOCK		0210/0040/	6.0	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC G2	DISTRICT NAME PORTLAND	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED																									
			4/85				5/85				6/85																	
LOCK PROCESSING TIME (MIN.)																												
APPROACH ENTRY CHAMBER EXIT : VESSELS TIME AVG MAX : TOWS TOWS (ALL USE)																												
MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX :																												
COLUMBIA RIVER																												
BONNEVILLE LOCK & DAM	1	6	31	1	6	75	5	22	95	1	4	30	235	17491	56.7	447												
THE DALLES DAM	1	5	19	1	5	27	4	21	66	1	5	30	170	2082	10.3	60												
JOHN DAY LOCK & DAM	1	5	25	1	5	22	11	25	435	1	4	16	199	985	4.9	7												
WILLAMETTE RIVER																												
WILLAMETTE FALLS LOCKS 1 - 4	1	1	8	1	1	20	4	32	103	1	2	35	156	3084	13.3	1918												
WILLAMETTE FALLS GUARD LOCK	1	1	2	1	1	5	1	1	19	1	1	70	111	113	1.0	4												

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
SS	SEATTLE	NORTH PACIFIC	4/85 5/85 6/85
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)
LAKE WASHINGTON SHP CA	01-HIRAM M CHITTENDEN LOCKS		0760/0080/ 30.0
	01-HIRAM M CHITTENDEN LOCKS AUX1		0150/0013/ 25.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LOCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
G4	WALLA WALLA	NORTH PACIFIC	4/85 5/85 6/85
<hr/>			
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)
COLUMBIA RIVER	24-MCNARY LOCK & DAM		0675/0086 14.0
SNAKE RIVER	01-ICE HARBOR LOCK & DAM		0670/0086/ 14.0
	02-LOWER MONUMENTAL LOCK & DAM		0670/0086/ 14.0
	03-LITTLE GOOSE LOCK & DAM		0670/0086/ 14.0
	04-LOWER GRANITE LOCK & DAM		0670/0086/ 14.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC G4	DISTRICT NAME WALLA WALLA	DIVISION NAME NORTH PACIFIC				MONTHS REPORTED							
						4/85		5/85		6/85			
RIVER/LOCK NAME	TOWS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TUNNAGE (KTONS)	
COLUMBIA RIVER													
MCNARY LOCK & DAM	xxx												
UPBOUND STATISTICS	127	69	7	203	258	193	451	139	38	46	223	348	
DNBOUND STATISTICS	133	83	6	222	61	406	467	146	51	48	245	928	
TOTAL	260	152	13	425	319	599	918	285	89	94	468	1276	
SNAKE RIVER													
ICE HARBOR LOCK & DAM	xxx												
UPBOUND STATISTICS	117	349	19	485	240	41	281	142	147	48	337	26	
DNBOUND STATISTICS	114	339	19	472	3	265	288	140	145	50	335	641	
TOTAL	231	688	38	957	243	326	569	282	292	98	672	668	
LOWER MONUMENTAL LOCK & DAM	xxx												
UPBOUND STATISTICS	79	51	3	143	210	44	254	88	32	45	165	30	
DNBOUND STATISTICS	80	63	2	146	3	257	260	89	33	46	168	552	
TOTAL	159	124	2	289	213	301	514	177	65	91	333	582	
LITTLE GOOSE LOCK & DAM	xxx												
UPBOUND STATISTICS	73	77	3	163	211	41	252	92	36	43	171	26	
DNBOUND STATISTICS	79	81	2	162	3	251	254	90	36	50	176	532	
TOTAL	152	158	5	325	214	292	506	182	72	93	347	559	
LOWER GRANITE LOCK & DAM	xxx												
UPBOUND STATISTICS	73	150	9	232	156	38	194	96	104	6	206	24	
DNBOUND STATISTICS	75	146	7	228	4	189	203	96	101	7	204	389	
TOTAL	148	296	16	461	160	237	397	192	205	13	410	414	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC 64	DISTRICT NAME WALLA WALLA	DIVISION NAME NORTH PACIFIC	INSTITUTE FOR WATER RESOURCES												MONTHS REPORTED													
							4/85				5/85				6/85													
		LOCK PROCESSING TIME (MIN.)																										
		APPROACH												ENTRY		CHAMBER		EXIT										
		MIN	AVG	MAX	:	MIN	Avg	Max	:	Min	Avg	Max	:	MIN	Avg	Max	:	VESSELS	TIME									
		TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	:	TOWS	TOWS	TOWS	TOWS	AVG	MAX									
COLUMBIA RIVER																												
MCNARY LOCK & DAM		2	4	27	2	5	25	5	16	37	1	5	18	260	1659	6.3	105											
SNAKE RIVER																												
ICE HARBOR LOCK & DAM		2	3	26	1	4	40	7	21	43	2	3	15	231	1374	5.9	567											
LOWER MONUMENTAL LOCK & DAM		1	3	19	1	5	23	10	22	40	1	4	15	154	1318	8.2	250											
LITTLE GOOSE LOCK & DAM		1	3	15	1	3	14	10	14	25	1	4	15	162	638	3.9	21											
LOWER GRANITE LOCK & DAM		1	3	16	2	4	18	8	12	31	1	3	11	145	730	4.1	38											

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED 4/85	MONTHS REPORTED 5/85	MONTHS REPORTED 6/85
RIVER	LOCK-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
KANAWHA RIVER	01-WINFIELD LOCKS & DAM MAIN 1		0360/0056/ 12.0		
	01-WINFIELD LOCKS & DAM MAIN 2		0360/0056/ 12.0		
	02-MARMET LOCKS & DAM MAIN 1		0360/0056/ 12.0		
	02-MARMET LOCKS & DAM MAIN 2		0360/0056/ 12.0		
	03-LONDON LOCKS & DAM MAIN 1		0360/0056/ 12.0		
	03-LONDON LOCKS & DAM MAIN 2		0360/0056/ 12.0		
OHIO RIVER	21-BELLEVILLE LOCKS & DAM		1200/0110/ 12.0		
	21-BELLEVILLE LOCKS & DAM AUX 1		0600/0110/ 12.0		
	22-RACINE LOCKS & DAM		1200/0110/ 12.0		
	22-RACINE LOCKS & DAM AUX 1		0600/0110/ 12.0		
	23-GALLIPOLIS LOCKS & DAM		0360/0110/ 12.0		
	23-GALLIPOLIS LOCKS & DAM AUX 1		0360/0110/ 12.0		
	24-GREENUP LOCKS & DAM		1200/0110/ 12.0		
	24-GREENUP LOCKS & DAM AUX 1		0600/0110/ 12.0		
	25-CART ANT MELDAHL LOCKS & DAM		1200/0110/ 12.0		
	25-CART ANT MELDAHL LOCKS & DAM AUX 1		0600/0110/ 12.0		
	70-WILLOW ISLAND LOCKS & DAM		1200/0110/ 12.0		
	72-WILLOW ISLAND LOCKS & DAM AUX		0600/0110/ 12.0		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER		MONTHS REPORTED									
				4/85			5/85			6/85			
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)	
KANAWHA RIVER													
WINFIELD LOCKS & DAM MAIN 1	***												
UPBOUND STATISTICS	354	10	16	380	1330	816	2146	1484	12	8	1504	1362	
DNBOUND STATISTICS	343	6	30	379	539	1540	2079	1401	11	15	1427	1822	
TOTAL	697	16	46	759	1869	2356	4225	2885	23	23	2931	3184	
WINFIELD LOCKS & DAM MAIN 2	***												
UPBOUND STATISTICS	121	8	10	139	577	161	738	444	17	3	444	249	
DNBOUND STATISTICS	133	9	11	153	213	580	793	520	14	0	534	174	
TOTAL	254	17	21	292	790	741	1531	964	31	3	998	923	
MARMET LOCKS & DAM MAIN 1	***												
UPBOUND STATISTICS	205	74	25	304	866	126	992	657	114	5	776	173	
DNBOUND STATISTICS	247	55	18	320	97	1140	1237	840	92	2	936	1379	
TOTAL	452	129	43	624	963	1266	2229	1497	207	8	1711	1553	
MARMET LOCKS & DAM MAIN 2	***												
UPBOUND STATISTICS	139	66	22	227	559	47	606	413	100	5	516	57	
DNBOUND STATISTICS	99	87	22	208	27	335	362	238	114	6	360	408	
TOTAL	238	153	44	435	586	382	968	651	214	13	878	465	
LONDON LOCKS & DAM MAIN 1	***	ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	21	2	4	27	68	4	71	71	5	2	78	5	
DNBOUND STATISTICS	23	1	2	26	0	84	84	84	3	0	87	124	
TOTAL	44	3	6	53	68	88	156	155	8	2	165	130	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			4/85			5/85			6/85			
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
KANAWHA RIVER												
LONDON LOCKS & DAM MAIN 2	***											
UPBOUND STATISTICS	132	32	13	177	364	12	376	334	74	2	410	11
DNBOUND STATISTICS	133	33	10	176	7	343	350	313	71	4	388	483
TOTAL	265	65	23	353	371	355	726	647	145	6	798	494
OHIO RIVER												
BELLEVILLE LOCKS & DAM	***											
UPBOUND STATISTICS	421	2	4	427	839	3885	4724	422	1	0	423	5524
DNBOUND STATISTICS	399	0	0	399	2571	2054	4625	399	0	0	399	3240
TOTAL	820	2	4	826	3410	5939	9349	821	1	0	822	8765
BELLEVILLE LOCKS & DAM AUX 1	***											
UPBOUND STATISTICS	37	106	6	149	28	94	122	39	85	2	126	102
DNBOUND STATISTICS	57	110	9	176	145	63	208	64	81	5	150	73
TOTAL	94	216	15	325	173	157	330	103	166	7	276	175
RACINE LOCKS & DAM	***											
UPBOUND STATISTICS	449	2	3	454	1125	3920	5045	449	1	0	450	5549
DNBOUND STATISTICS	436	1	4	441	2620	2366	4986	437	1	0	438	3522
TOTAL	885	3	7	895	3745	6286	10031	886	2	0	888	9071
RACINE LOCKS & DAM ALV 1	***											
UPBOUND STATISTICS	40	66	10	116	52	51	103	48	53	3	104	72
DNBOUND STATISTICS	63	72	5	140	124	96	220	68	54	5	127	94
TOTAL	103	138	15	258	176	147	323	116	107	8	231	166

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME						MONTHS REPORTED					
		OHIO RIVER						4/85		5/85		6/85	
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMERCER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
OHIO RIVER													
GALLIPOLIS LOCKS & DAM	XXX												
UPBOUND STATISTICS	451	5	10	466	849	3530	4379	772	5	0	777	5462	
DNBOUND STATISTICS	452	8	11	471	2177	2214	4391	776	5	0	781	3228	
TOTAL	903	13	21	937	3026	5744	9770	1548	10	0	1558	8690	
GALLIPOLIS LOCKS & DAM AUX 1	XXX												
UPBOUND STATISTICS	32	49	24	105	33	38	71	59	40	5	104	48	
DNBOUND STATISTICS	38	51	19	108	54	33	87	59	44	5	108	36	
TOTAL	70	100	43	213	87	71	158	118	84	10	212	85	
GREENUP LOCKS & DAM	XXX												
UPBOUND STATISTICS	564	61	40	665	3338	2071	5409	582	34	1	617	3276	
DNBOUND STATISTICS	552	82	47	681	832	4582	5414	582	41	4	627	6778	
TOTAL	1116	143	87	1346	4170	6653	10823	1164	75	5	1244	10654	
GREENUP LOCKS & DAM AUX 1	XXX												
UPBOUND STATISTICS	27	312	20	359	48	20	68	46	180	3	229	27	
DNBOUND STATISTICS	22	269	26	317	35	17	52	48	146	1	195	21	
TOTAL	49	581	46	676	83	37	120	94	326	4	424	49	
CAPT ANT MELDAHL LOCKS & DAM	XXX												
UPBOUND STATISTICS	489	6	6	501	3058	2265	5323	492	5	0	497	3559	
DNBOUND STATISTICS	483	14	7	504	947	4425	5372	487	13	1	501	6625	
TOTAL	972	20	13	1005	4005	6690	10695	979	18	1	998	10184	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME						MONTHS REPORTED					
		OHIO RIVER						4/85	5/85	6/85			
RIVER/LOCK NAME	TOWS	VESSL RECRFTN	VESSL OTHER	VESEL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRFTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (NAV, DPN, ETC)	
OHIO RIVER													
CAPT ANT MELDAHL LK&DAM AUX 1	***												
UPBOUND STATISTICS	43	632	9	683	50	107	157	53	254	3	310	146	
DNBOUND STATISTICS	42	594	10	646	103	53	156	55	238	2	295	73	
TOTAL	85	1226	18	1329	153	160	313	108	492	5	605	220	
WILLOW ISLAND LOCKS & DAM	***												
UPBOUND STATISTICS	403	11	4	418	816	3632	4448	405	5	1	411	4924	
DNBOUND STATISTICS	390	3	4	397	2280	2119	4399	391	2	1	394	3221	
TOTAL	793	14	8	815	3096	5751	8847	796	7	2	805	8145	
WILLOW ISLAND LOCKS & DAM AUX	***												
UPBOUND STATISTICS	73	170	108	351	96	159	255	85	51	1	137	136	
DNBOUND STATISTICS	95	201	109	405	239	102	341	108	50	3	161	114	
TOTAL	168	371	217	756	335	261	596	193	101	4	299	251	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MATERIALS FOR WATER RELEASE												MONTHS REPORTED					
			4/85				5/85				6/85									
			LOCK PROCESSING TIME (MIN.)																	
APPROACH			ENTRY				CHAMBER				EXIT				: VESSELS					
			MIN	AVG	MAX	:	MIN	Avg	Max	:	MIN	Avg	Max	:	MIN	Avg	Tows	Tows		
KANAWHA RIVER																				
WINFIELD LOCKS & DAM MAIN 1	1	6	115	1	4	25	5	9	40	1	9	77	633	853475	1224.4	5095				
WINFIELD LOCKS & DAM MAIN 2	1	9	59	1	5	25	5	9	23	5	11	97	185	47415	186.6	1580				
MARMET LOCKS & DAM MAIN 1	1	8	45	1	5	26	5	8	35	1	8	120	182	33575	74.2	755				
MARMET LOCKS & DAM MAIN 2	1	8	61	1	4	17	5	8	21	1	7	58	36	3178	13.3	415				
LONDON LOCKS & DAM MAIN 1	1	7	30	1	5	12	6	9	20	2	9	25	13	2506	56.3	585				
LONDON LOCKS & DAM MAIN 2	1	7	47	1	4	25	5	8	193	1	8	40	56	9778	36.6	860				
OHIO RIVER																				
BELLEVILLE LOCKS & DAM	1	17	51	2	10	30	8	12	20	3	9	27	257	9483	11.5	171				
BELLEVILLE LOCKS & DAM AUX 1	1	12	38	1	4	19	9	12	22	1	5	18	5	127	1.3	47				

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

FRC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED													
			4/85			5/85			6/85							
			LOCK PROCESSING TIME (MIN.)			: VESSELS			TIME			DELAY				
APPROACH																
			MIN	AVG	MAX	: MIN	Avg	Max	: MIN	Avg	Max	: MIN	Avg	Max		
OHIO RIVER																
RACINE LOCKS & DAM	1	15	75	2	11	28	6	11	445	1	10	28	311	13349	15.0	150
RACINE LOCKS & DAM AUX 1	1	10	43	1	6	20	7	11	70	1	7	21	4	105	1.0	41
GALLIPOLIS LOCKS & DAM	1	10	83	1	11	46	5	11	24	1	17	65	631	103792	114.9	880
GALLIPOLIS LOCKS & DAM AUX 1	1	7	26	1	5	27	6	11	32	2	6	33	3	152	2.1	90
GREENUP LOCKS & DAM	1	13	60	1	9	21	6	11	24	1	9	32	503	20386	18.2	333
GREENUP LOCKS & DAM AUX 1	1	6	24	2	4	13	5	10	16	1	4	22	5	84	1.7	35
CAPT ANT MELDAHL LOCKS & DAM	1	18	59	1	10	33	7	13	35	1	12	33	437	31722	32.6	1440
CAPT ANT MELDAHL LK&DAM AUX	1	6	82	1	3	31	5	12	28	1	3	29	9	469	5.5	123
WILLOW ISLAND LOCKS & DAM	1	16	46	1	8	24	5	13	25	2	10	25	240	8704	10.9	102
WILLOW ISLAND LOCKS & DAM AU	1	13	31	1	4	15	8	13	27	1	6	20	12	331	1.9	53

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
H2	LOUISVILLE	OHIO RIVER	4/85 5/85 6/85
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)
GREEN/RARREN RIVER	21-LOCK & DAM 1		0600/0084/ 12.0
	22-LOCK & DAM 2		0600/0084/ 12.0
OHIO RIVER	41-MARKLAND LOCKS & DAM		1200/0110/ 12.0
	41-MARKLAND LOCKS & DAM AUX 1		0600/0110/ 12.0
	42-MCALPINE LOCKS & DAM		1200/0110/ 12.0
	42-MCALPINE LOCKS & DAM AUX 1		0600/0110/ 12.0
	52-LOCK & DAM 52		1200/0110/ 12.0
	52-LOCK & DAM 52 AUX 1		0600/0110/ 12.0
	75-CANNELTON LOCK & DAM		1200/0110/ 12.0
	75-CANNELTON LOCK & DAM AUX		0600/0110/ 12.0
	76-NEWBURGH LOCK & DAM		1200/0110/ 12.0
	76-NEWBURGH LOCK & DAM AUX 1		0600/0110/ 12.0
	77-UNIONTOWN LOCK & DAM		1200/0110/ 12.0
	77-UNIONTOWN LOCK & DAM AUX 1		0600/0110/ 12.0
	78-SMITHLAND LOCK & DAM		1200/0110/ 12.0
	78-SMITHLAND LOCK & DAM AUX 1		1200/0110/ 12.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER		MONTHS REPORTED									
				4/85			5/85			6/85			
RIVER/LOCK NAME	TOWS	VESSL RECRN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGES COMMER	LCKGES RECRN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
GREEN & BARREN RIVER													
LOCK & DAM 1		***											
UPBOUND STATISTICS	461	198	4	663	1539	225	1764	409	117	59	585	336	
DNBOUND STATISTICS	449	198	8	655	87	1640	1727	405	112	54	571	2462	
TOTAL	910	396	12	1318	1626	1865	3491	814	229	113	1156	2799	
LOCK & DAM 2		***											
UPBOUND STATISTICS	313	58	8	379	1193	39	1232	320	32	3	355	58	
DNBOUND STATISTICS	319	55	9	381	51	1198	1249	328	34	1	363	1794	
TOTAL	632	111	17	760	1244	1237	2481	648	66	4	718	1852	
OHIO RIVER													
MARKLAND LOCKS & DAM		***											
UPBOUND STATISTICS	392	227	10	729	2022	2753	4775	504	71	2	577	4461	
DNBOUND STATISTICS	478	202	9	686	895	3757	4653	489	82	1	572	5582	
TOTAL	870	429	18	1417	2918	6510	9428	993	153	3	1149	10044	
MARKLAND LOCKS & DAM AUX 1		***											
UPBOUND STATISTICS	37	47	2	86	139	142	281	51	34	2	87	243	
DNBOUND STATISTICS	50	57	4	111	83	281	364	69	37	1	107	440	
TOTAL	87	104	6	197	222	423	645	120	71	3	194	684	
MCALPINE LOCKS & DAM		***											
UPBOUND STATISTICS	584	203	91	868	1609	3785	5394	647	108	5	760	6021	
DNBOUND STATISTICS	603	203	68	874	1313	4017	5330	654	94	6	754	6005	
TOTAL	1187	406	149	1742	2922	7802	10724	1301	202	11	1514	12026	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER				MONTHS REPORTED							
		TOWS RECRNTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRNTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
(NAV, OPN, ETC)													
OHIO RIVER													
MCALPINE LOCKS & DAM AUX 1		***	NO DATA RECORDED FOR THIS LOCK										
LOCK & DAM 52		***											
UPBOUND STATISTICS	1044	0	129	1173	4923	5668	10591	95	9	1005	1109	8924	
DNBOUND STATISTICS	1047	2	113	1162	2867	7245	10112	89	22	1050	1161	10687	
TOTAL	2091	2	242	2335	7790	12913	20703	184	31	2055	2270	19611	
LOCK & DAM 52 AUX 1		***	ONLY SECOND AND THIRD MONTHS REPORTED										
UPBOUND STATISTICS	54	15	15	84	80	80	160	67	9	4	80	146	
DNBOUND STATISTICS	61	21	15	97	99	123	222	76	13	3	92	169	
TOTAL	115	36	30	181	179	203	382	143	22	7	172	315	
CANNELTON LOCK & DAM		***											
UPBOUND STATISTICS	597	34	13	644	1963	4031	5994	601	18	2	621	6355	
DNBOUND STATISTICS	587	30	10	627	1419	4380	5799	593	14	0	607	6264	
TOTAL	1184	64	23	1271	3382	8411	11793	1194	32	2	1228	12620	
CANNELTON LOCK & DAM AUX		***											
UPBOUND STATISTICS	8	229	11	248	18	2	20	18	106	1	125	1	
DNBOUND STATISTICS	4	209	10	223	3	5	9	13	100	4	117	5	
TOTAL	12	438	21	471	21	7	28	31	106	5	242	6	
NEWBURGH LOCK & DAM		***											
UPBOUND STATISTICS	721	17	39	777	2800	4517	7317	735	11	0	746	7176	
DNBOUND STATISTICS	704	25	19	748	1958	5130	7088	712	18	2	732	7195	
TOTAL	1425	42	58	1525	4758	9647	14405	1447	29	2	1478	14371	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			4/85			5/85			6/85			
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
OHIO RIVER												
NEWBURGH LOCK & DAM AUX 1		***										
UPBOUND STATISTICS	71	535	28	634	118	93	211	107	338	5	450	159
DNBOUND STATISTICS	103	522	18	643	225	68	293	131	344	2	477	79
TOTAL	174	1057	46	1277	343	161	504	238	682	7	927	239
UNIONTOWN LOCK & DAM		***										
UPBOUND STATISTICS	736	16	27	779	4199	3830	8029	739	11	1	751	6290
DNBOUND STATISTICS	748	15	15	778	1663	6301	7964	754	10	0	764	9550
TOTAL	1484	31	42	1557	5862	10131	15993	1493	21	1	1515	15841
UNIONTOWN LOCK & DAM AUX 1		***										
UPBOUND STATISTICS	40	510	14	564	65	48	113	54	345	3	402	85
DNBOUND STATISTICS	35	510	15	560	56	30	86	51	344	3	398	46
TOTAL	75	1020	29	1124	121	78	199	105	689	6	800	131
SMITHLAND LOCK & DAM		***										
UPBOUND STATISTICS	144	29	13	186	791	464	1255	154	22	7	183	755
DNBOUND STATISTICS	753	74	96	923	1343	6454	7797	768	48	8	824	9944
TOTAL	897	103	109	1109	2134	6918	9052	922	70	15	1007	10700
SMITHLAND LOCK & DAM AUX 1		***										
UPBOUND STATISTICS	729	60	32	811	4428	3371	7799	745	52	7	804	5496
DNBOUND STATISTICS	121	29	10	160	345	795	1140	131	25	5	161	1243
TOTAL	850	89	42	981	4773	4166	8939	876	77	12	965	6739

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED											
			4/85				5/85				6/85			
			APPROACH			LOCK PROCESSING TIME (MIN.)			: DELAYED			DELAY		
			MIN	AVG	MAX	ENTRY : MIN	CHAMBER : MIN	EXIT : MIN	: VESSELS	TIME	Avg	TOWS	TOWS	DELAY MAX (ALL VES)
GREEN/BARREN RIVER														
LOCK & DAM 1			1	4	22	1	2	16	1	7	57	1	4	20
LOCK & DAM 2			1	4	53	1	3	10	5	12	57	1	4	25
OHIO RIVER														
MARKLAND LOCKS & DAM			1	18	60	1	7	30	5	14	33	1	9	29
MARKLAND LOCKS & DAM AUX 1			1	10	63	1	7	30	5	12	38	1	13	63
MCALPINE LOCKS & DAM			1	16	60	1	8	39	5	11	45	1	6	42
LOCK & DAM 52			1	5	60	1	3	31	1	3	53	1	5	65
LOCK & DAM 52 AUX 1			1	10	50	1	7	40	4	12	39	1	8	45
CANNELTON LOCK & DAM			1	22	77	1	7	30	1	11	40	1	8	46

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

ELOC HC	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED																
			4/85			5/85			6/85			: VESSELS	TIME	AVG	MAX				
			APPROACH	ENTRY	CHAMBER	EXIT	MIN	Avg	MAX	MIN	Avg								
MIN : MAX : MAX : MAX : TOWS : TOWS : (ALL VSLs)																			
OHIO RIVER																			
CANNELTON LOCK & DAM AUX	1	8	38	1	2	25	5	10	52	1	2	15	1	35	2.9	60			
NEWBURGH LOCK & DAM	1	15	60	1	9	30	5	8	14	1	10	27	713	30980	21.7	416			
NEWBURGH LOCK & DAM AUX 1	1	5	50	1	3	30	5	8	11	1	3	47	22	364	2.0	40			
UNIONTOWN LOCK & DAM	1	18	60	1	7	30	5	9	26	1	7	27	773	41503	27.9	283			
UNIONTOWN LOCK & DAM AUX 1	1	5	56	1	1	21	5	9	18	1	1	40	8	169	2.2	50			
SMITHLAND LOCK & DAM	1	15	150	1	9	25	5	10	435	1	9	105	184	12789	14.2	700			
SMITHLAND LOCK & DAM AUX 1	1	12	110	1	9	30	5	10	115	1	8	440	150	6130	7.2	830			

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
H3	NASHVILLE	OHIO RIVER	4/85 5/85 6/85
<hr/>			
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)
CLINCH RIVER	11-MELTON HILL LOCK		0400/0075/ 11.0
CUMBERLAND RIVER	21-BARKLEY LOCK		0800/0110/ 11.0
	22-CHEATHAM LOCK		0800/0110/ 11.0
	23-CORDELL HULL LOCK		0400/0084/ 11.0
TENNESSEE RIVER	24-OLD HICKORY LOCK		0400/0084/ 11.0
	01-KENTUCKY LOCK		0600/0110/ 11.0
	02-PICKWICK LANDING LOCK		1000/0110/ 11.0
	02-PICKWICK LANDING LOCK AUX		0600/0110/ 11.0
	03-WILSON LOCK		0600/0110/ 11.0
	03-WILSON LOCK AUX		0292/0060/ 11.0
	04-GEN JOS WHEELER LOCK	AUX1	0600/0110/ 11.0
	04-GEN JOS WHEELER LK		0400/0060/ 11.0
	05-GUNTERSVILLE LOCK		0600/0110/ 11.0
	05-GUNTERSVILLE LOCK	AUX 1	0360/0060/ 11.0
	06-NICKAJAC LOCK		0600/0110/ 11.0
	07-CHICKAMAUGA LOCK		0360/0060/ 11.0
	08-WATTS BAR LOCK		0360/0060/ 11.0
	09-FORT LOUDON LOCK		0360/0060/ 11.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER						MONTHS REPORTED					
								4/85		5/85		6/85	
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTOMS)	
(NAV, OPN, ETC)													
CLINCH RIVER													
MELTON HILL LOCK		***											
UPBOUND STATISTICS	0	8	0	8	0	0	0	0	7	8	15	0	
DNBOUND STATISTICS	0	8	0	8	0	0	0	0	7	7	14	0	
TOTAL	0	16	0	16	0	0	0	0	14	15	29	1	
CUMBERLAND RIVER													
BARKLEY LOCK		***											
UPBOUND STATISTICS	71	137	3	211	20	514	534	75	81	13	169	774	
DNBOUND STATISTICS	125	154	5	284	969	42	1011	142	127	14	283	65	
TOTAL	196	291	8	495	989	556	1545	217	208	27	452	840	
CHEATHAM LOCK		***											
UPBOUND STATISTICS	119	135	0	254	31	689	720	122	106	5	233	1038	
DNBOUND STATISTICS	120	140	1	261	698	62	760	124	103	5	232	77	
TOTAL	239	275	1	515	729	751	1480	246	209	10	465	1116	
CORDELL HULL LOCK		***											
UPBOUND STATISTICS	11	14	6	31	40	1	41	22	17	1	40	1	
DNBOUND STATISTICS	17	15	0	32	1	38	39	17	15	1	33	53	
TOTAL	28	29	6	63	41	39	80	39	32	2	73	55	
OLD HICKORY LOCK		***											
UPBOUND STATISTICS	34	513	15	562	19	47	66	51	271	4	326	76	
DNBOUND STATISTICS	32	511	15	558	53	11	64	48	294	5	347	13	
TOTAL	66	1024	30	1120	72	58	130	99	565	9	673	90	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			4/85				5/85				6/85			
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES	LCKGEE RECRTN	LCKGEE OTHER	LCKGEE TOTAL	TONNAGE (KTONS)			
(NAV, OPR, ETC)														
TENNESSEE RIVER														
KENTUCKY LOCK	***													
UPBOUND STATISTICS	460	71	38	569	879	3411	4290	707	64	2	773	5077		
DNBOUND STATISTICS	405	57	52	514	2651	1116	3767	644	61	5	710	1521		
TOTAL	865	128	90	1083	3530	4527	8057	1351	125	7	1483	6598		
PICKWICK LANDING LOCK	***													
UPBOUND STATISTICS	191	106	4	301	67	1929	1996	237	66	11	314	2760		
DNBOUND STATISTICS	187	150	11	348	1625	207	1832	235	107	11	358	297		
TOTAL	378	256	15	649	1692	2136	3823	472	173	22	667	3058		
PICKWICK LANDING LOCK AUX	***	ONLY FIRST AND SECOND MONTHS REPORTED												
UPBOUND STATISTICS	83	22	1	106	34	839	873	131	25	14	170	1224		
DNBOUND STATISTICS	89	43	2	134	771	121	892	136	46	4	186	172		
TOTAL	172	65	3	240	805	960	1755	267	71	18	356	1297		
WILSON LOCK	***													
UPBOUND STATISTICS	147	266	66	479	118	1102	1220	225	172	18	415	1630		
DNBOUND STATISTICS	151	282	61	494	813	339	1152	225	186	15	426	470		
TOTAL	298	548	127	973	931	1441	2372	450	358	33	841	2101		
WILSON LOCK AUX	***	NO DATA RECORDED FOR THIS LOCK												
GEN JOS WHEELER LOCK	***													
UPBOUND STATISTICS	140	68	2	210	100	1063	1163	197	37	8	242	1522		
DNBOUND STATISTICS	129	57	7	193	779	320	1099	187	43	7	237	450		
TOTAL	269	125	9	403	879	1383	2262	384	80	15	479	1972		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER				MONTHS REPORTED							
						4/85		5/85		6/85			
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
TER-MESSEE RIVER													
GEN JOS WHEELER LR	AUY 1	***											
UPBOUND STATISTICS	0	297	0	297	0	0	0	1	179	7	187	1	
DNBOUND STATISTICS	1	274	3	278	1	0	1	5	170	6	181	0	
TOTAL	1	571	3	575	1	0	1	6	349	13	368	1	
GUNTERSVILLE LOCK	AUY 1	***											
UPBOUND STATISTICS	133	911	5	949	247	734	981	156	288	12	456	1050	
DNBOUND STATISTICS	129	770	6	905	506	388	894	150	283	11	444	509	
TOTAL	262	1581	11	1854	753	1122	1875	306	571	23	900	1559	
GUNTERSVILLE LOCK	AUY 1	***											
UPBOUND STATISTICS	0	336	1	337	0	0	0	1	178	1	180	0	
DNBOUND STATISTICS	0	341	1	342	0	0	0	1	178	0	179	0	
TOTAL	0	677	2	679	0	0	0	2	356	1	359	0	
NICKAJAC LOCK	AUY 1	***											
UPBOUND STATISTICS	164	132	7	303	304	698	1002	187	98	6	291	957	
DNBOUND STATISTICS	158	138	12	308	575	408	983	187	110	5	302	558	
TOTAL	322	270	19	611	879	1106	1985	374	208	11	593	1515	
CHICKAMAUGA LOCK	AUY 1	***											
UPBOUND STATISTICS	56	1152	5	1219	68	211	279	93	508	17	618	296	
DNBOUND STATISTICS	56	1158	7	1221	186	112	300	99	535	17	651	157	
TOTAL	112	2316	12	2440	256	323	579	192	1043	34	1269	453	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			4/85			5/85			6/85			
RIVER/LOCK NAME	TOWS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC.)												
TENNESSEE RIVER												
WATTS BAR LOCK	XXX											
UPBOUND STATISTICS	36	340	2	378	74	73	147	53	317	7	377	118
DNBOUND STATISTICS	32	323	2	357	41	100	141	47	309	7	363	135
TOTAL	68	663	4	735	115	173	288	100	626	14	740	253
FORT LOUDON LOCK	XXX											
UPBOUND STATISTICS	32	244	3	279	9	71	90	46	173	8	227	107
DNBOUND STATISTICS	30	240	4	274	41	32	75	40	185	8	233	37
TOTAL	62	484	7	553	50	103	153	86	358	16	460	144

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EPOC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED																									
			4/85			5/85			6/85																			
LOCK PROCESSING TIME (MIN.)																												
APPROACH ENTRY CHAMBER EXIT : VESSELS DELAY AVG MAX TOWS TOWS (ALL VSLs)																												
MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX :																												
CLINCH RIVER																												
MELTON HILL LOCK	1	7	24	1	3	14	6	14	22	1	2	5	0	0	0.0	98												
CUMBERLAND RIVER																												
BARKLEY LOCK	1	11	53	1	7	45	6	15	29	1	7	49	23	822	4.1	118												
CHEATHAM LOCK	1	7	50	1	7	37	9	16	30	1	6	67	25	649	2.7	600												
CORDELL HULL LOCK	2	8	70	1	7	40	15	20	30	1	10	36	2	1325	47.3	875												
OLD HICKORY LOCK	1	3	23	1	3	35	6	16	44	1	3	25	14	746	11.3	600												
TENNESSEE RIVER																												
KENTUCKY LOCK	1	9	145	1	13	81	6	18	45	1	17	92	683	155457	179.7	955												

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED														
			4/85			5/85			: VESSELS	TIME	AVG	MAX					
			APPROACH	ENTRY	CHAMBER	EXIT	TOWS	TOWS						(ALL VSLs)			
			MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX						
TENNESSEE RIVER																	
PICKWICK LANDING LOCK	1	12	201	1	14	83	10	21	46	1	16	289	543	44271	117.1	1123	
PICKWICK LANDING LOCK AUX	1	8	81	2	11	47	6	19	54	2	16	60	100	12460	72.4	432	
WILSON LOCK	1	8	50	2	10	50	10	22	73	1	11	64	111	9610	29.8	1028	
GEN JOS WHEELER LOCK	1	12	88	5	13	40	6	14	28	1	16	51	74	3768	13.7	195	
GEN JOS WHEELER LK	AUX	1	7	110	2	5	22	6	12	22	1	4	14	0	0	0.0	176
GUNTERSVILLE LOCK	1	6	66	1	7	46	10	14	45	1	8	61	79	3493	13.3	356	
GUNTERSVILLE LOCK	AUX	1	4	27	1	3	22	9	12	21	1	2	10	0	0	0.0	58
NICKAJAC LOCK	1	9	55	2	6	47	6	13	24	1	9	55	56	2187	6.7	142	
CHICKAMAUGA LOCK	1	3	99	1	5	96	6	14	71	1	5	48	56	10143	90.5	791	
WATTS BAR LOCK	1	5	90	1	3	24	10	15	25	1	4	30	18	2214	32.5	601	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC HS	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER		MONTHS REPORTED 4/85	5/85	6/85									
			LOCK PROCESSING TIME (MIN.)	: DELAYED	DELAY	DELAY	DELAY								
APPROACH ENTRY CHAMBER EXIT			: VESSELS	TIME	Avg	MAX									
MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX :			TOWS	TOWS	(ALL VSLs)										
TENNESSEE RIVER															
FORT LOUDON LOCK			1 10 89	1 3 28	8 21 39	1 4 118	11	405	6.5	215					

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED		
			4/85	5/85	6/85
RIVER		LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)		
ALLEGHENY RIVER		42-LOCK & DAM 2	0360/0056/	9.0	
		43-LOCK & DAM 3	0360/0056/	9.0	
		44-LOCK & DAM 4	0360/0056/	9.0	
		45-LOCK & DAM 5	0360/0056/	9.0	
		46-LOCK & DAM 6	0360/0056/	9.0	
		47-LOCK & DAM 7	0360/0056/	9.0	
		48-LOCK & DAM 8	0360/0056/	9.0	
		49-LOCK & DAM 9	0360/0056/	9.0	
MONONGAHELA RIVER		22-LOCK & DAM 2	0720/0110/	9.0	
		22-LOCK & DAM 2 AUX 1	0360/0056/	9.0	
		23-LOCK & DAM 3	0720/0056/	9.0	
		23-LOCK & DAM 3 AUXILIARY 1	0360/0056/	9.0	
		24-LOCK & DAM 4	0720/0056/	9.0	
		24-LOCK & DAM 4 AUXILIARY 1	0360/0056/	9.0	
		25-MAXWELL LOCK & DAM	0720/0084/	9.0	
		25-MAXWELL LOCK & DAM AUX 1	0720/0084	9.0	
		27-LOCK & DAM 7	0360/0056/	9.0	
		28-LOCK & DAM 8	0360/0056/	9.0	
		29-MORGANTOWN LOCK & DAM	0600/0084/	9.0	
		30-HILDEBRAND LOCK & DAM	0600/0084/	9.0	
		31-OPEKISKA LOCK & DAM	0600/0084/	9.0	
OHIO RIVER		01-EMSWORTH LOCK & DAM	0600/0110/	9.0	
		01-EMSWORTH LOCK & DAM AUX 1	0360/0056/	9.0	
		02-DASHIELDS LOCK & DAM	0600/0110/	9.0	
		02-DASHIELDS LOCK & DAM AUX 1	0360/0056/	9.0	

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
H4	PITTSBURGH	OHIO RIVER	4/85 5/85 6/85
RIVER	LCODE-LOCK NAME		
OHIO RIVER	03-MONTGOMERY LOCK & DAM	LEN/MID/DRAFT (FT/FT/FT)	0600/0110/ 9.0
	03-MONTGOMERY LOCK & DAM AUX 1		0360/0056/ 9.0
	04-NEW CUMBERLAND LOCK & DAM		1200/0110/ 9.0
	04-NEW CUMBERLAND LK & DAM AUX 1		0600/0110/ 9.0
	05-PIKE ISLAND LOCK & DAM		1200/0110/ 9.0
	05-PIKE ISLAND LOCK & DAM AUX 1		0600/0110/ 9.0
	71-HANNIBAL LOCKS & DAM		1200/0110/ 9.0
	71-HANNIBAL LOCKS & DAM AUX 1		0600/0110/ 9.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

FEDC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			4/85				5/85				6/85			
RIVER/LOCK NAME	TOWS	VESSL RECPNT	VESSL OTHER	VESSL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGES COMMERC	LOCKGES RECPNT	LOCKGES OTHER	LOCKGES TOTAL	TONNAGE (KTONS)	(NAU, OFN, ETC)	
ALLEGHENY RIVER														
LOCK & DAM 2	***													
UPBOUND STATISTICS	286	1350	15	1633	532	299	831	318	691	7	1026	342		
DNBOUND STATISTICS	256	1351	22	1629	397	511	798	318	645	11	974	266		
TOTAL	524	2701	37	3262	819	810	1629	646	1336	18	2000	609		
LOCK & DAM 3	***													
UPBOUND STATISTICS	264	584	18	666	527	310	837	339	386	7	732	358		
DNBOUND STATISTICS	259	574	13	846	304	503	807	328	371	6	705	264		
TOTAL	523	1158	31	1712	831	813	1644	667	757	13	1437	622		
LOCK & DAM 4	***													
UPBOUND STATISTICS	280	572	13	865	853	103	956	335	328	4	567	145		
DNBOUND STATISTICS	273	566	16	855	110	830	940	335	310	4	649	435		
TOTAL	553	1138	29	1720	963	933	1895	670	638	3	1316	580		
LOCK & DAM 5	***													
UPBOUND STATISTICS	203	331	7	541	821	3	824	220	218	3	441	2		
DNBOUND STATISTICS	201	325	4	530	16	791	807	219	216	3	435	342		
TOTAL	404	656	11	1071	937	794	1631	439	431	6	876	344		
LOCK & DAM 6	***													
UPBOUND STATISTICS	197	148	12	357	784	13	797	226	123	2	351	6		
DNBOUND STATISTICS	196	143	11	351	19	762	791	223	121	3	347	330		
TOTAL	393	291	23	707	803	775	1578	449	244	5	698	336		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/95 THROUGH 6/95
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER				MONTHLY REPORTS				T-85	T-86		
		TOWS	VESSEL RECRTN	VESSEL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LONGES COMMERCIAL	LONGES RECREAT	LONGES OTHER	TONAGE T-85	
												TONAL. OPEN. ETC	
ALLEGHENY RIVER													
LOCK & DAM 7	***												
UPBOUND STATISTICS	12	140	2	154	32	0	32	15	79	3	47	0	
DNBOUND STATISTICS	10	135	3	148	21	23	25	14	89	2	106	14	
TOTAL	22	275	5	302	34	23	57	29	168	6	203	14	
LOCK & DAM 8	***												
UPBOUND STATISTICS	93	115	5	213	93	0	93	98	83	1	182	0	
DNBOUND STATISTICS	90	116	8	214	0	90	90	98	85	1	184	141	
TOTAL	183	231	13	427	93	90	183	196	168	2	366	141	
LOCK & DAM 9	***	ONLY SECOND AND THIRD MONTHS REPORTED											
UPBOUND STATISTICS	0	125	0	125	0	0	0	0	66	0	66	0	
DNBOUND STATISTICS	0	120	0	120	0	0	0	0	70	0	70	0	
TOTAL	0	245	0	245	0	0	0	0	136	0	136	0	
MONONGAHELA RIVER													
LOCK & DAM 3	***												
UPBOUND STATISTICS	528	0	2	530	2115	1392	3507	591	0	2	593	1801	
DNBOUND STATISTICS	525	0	4	529	939	2590	3529	574	0	1	575	2645	
TOTAL	1053	0	6	1059	3054	3982	7036	1165	0	3	1168	4447	
LOCK & DAM 2 AUX 1	***												
UPBOUND STATISTICS	173	250	66	489	95	189	284	240	177	6	423	141	
DNBOUND STATISTICS	147	238	93	478	157	75	232	245	164	5	414	83	
TOTAL	320	488	159	967	252	264	516	485	341	11	837	225	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER						MONTHS REPORTED					
								4/85		5/85		6/85	
RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
MONONGAHELA RIVER													
LOCK & DAM 3	***												
UPBOUND STATISTICS	791	4	9	804	3516	515	4031	792	4	3	799	507	
DNBOUND STATISTICS	822	2	9	833	293	3783	4076	827	0	0	827	3786	
TOTAL	1613	6	18	1637	3809	4298	8107	1619	4	3	1626	4393	
LOCK & DAM 3 AUXILIARY 1	***												
UPBOUND STATISTICS	160	172	187	519	204	61	265	337	114	6	457	64	
DNBOUND STATISTICS	146	160	153	459	55	156	211	295	117	3	415	161	
TOTAL	306	332	340	978	259	217	476	632	231	9	872	226	
LOCK & DAM 4	***												
UPBOUND STATISTICS	631	0	3	634	3291	411	3702	684	0	2	686	432	
DNBOUND STATISTICS	657	0	1	658	206	3575	3781	713	0	2	715	3524	
TOTAL	1288	0	4	1292	3497	3986	7483	1397	0	4	1401	3957	
LOCK & DAM 4 AUXILIARY 1	***												
UPBOUND STATISTICS	68	128	57	253	152	33	185	133	102	6	241	26	
DNBOUND STATISTICS	65	219	165	449	42	163	205	146	110	4	260	158	
TOTAL	133	347	222	702	194	196	390	279	212	10	501	185	
MAXWELL LOCK & DAM	***												
UPBOUND STATISTICS	512	155	3	676	2697	292	2989	522	95	5	622	324	
DNBOUND STATISTICS	145	159	9	313	51	731	782	154	102	4	260	714	
TOTAL	657	314	18	989	2748	1023	3771	673	197	9	882	1039	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES**

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			4/85			5/85			6/85			
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARCS EMPTY	BARCS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
MONONGAHELA RIVER												
MAXWELL LOCK & DAM AUX 1		***										
UPBOUND STATISTICS	124	145	5	274	640	57	697	128	64	1	193	61
DNBOUND STATISTICS	500	162	5	667	120	2865	2985	504	80	1	585	2818
TOTAL	624	307	10	941	760	2922	3682	632	144	2	778	2880
LOCK & DAM 7		***										
UPBOUND STATISTICS	546	27	35	608	2154	319	2473	1011	35	8	1054	365
DNBOUND STATISTICS	554	28	33	615	163	2387	2550	1052	36	7	1095	2294
TOTAL	1100	55	68	1223	2317	2706	5023	2063	71	15	2149	2659
LOCK & DAM 8		***										
UPBOUND STATISTICS	467	21	29	517	1733	322	2055	848	32	13	893	367
DNBOUND STATISTICS	470	22	31	523	169	1948	2117	874	29	12	915	1872
TOTAL	937	43	60	1040	1902	2270	4172	1722	61	25	1808	2239
MORGANTOWN LOCK & DAM		***										
UPBOUND STATISTICS	94	72	12	178	402	1	403	110	58	4	172	2
DNBOUND STATISTICS	94	69	12	175	3	398	401	109	58	4	171	398
TOTAL	188	141	24	353	405	399	804	219	116	8	343	400
HILDEBRAND LOCK & DAM		***										
UPBOUND STATISTICS	49	33	5	87	187	6	193	54	27	3	84	6
DNBOUND STATISTICS	46	28	7	81	3	174	177	52	22	3	77	191
TOTAL	95	61	12	168	190	180	370	106	49	6	161	198

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER		MONTHS REPORTED									
						4/85		5/85		6/85			
RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGS EMPTY	BARGS FULL	EARGES	LENGES	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
MONONGAHELA RIVER													
OPEKISKA LOCK & DAM		XXX											
UPBOUND STATISTICS	16	66	3	85	46	0	46	19	48	3	75	0	
DNBOUND STATISTICS	17	71	3	91	1	40	41	20	60	10	90	43	
TOTAL	33	137	6	176	47	40	87	39	108	19	165	43	
OHIO RIVER													
EMSWORTH LOCK & DAM		XXX											
UPBOUND STATISTICS	567	16	15	598	1411	2320	3731	672	2	4	678	2744	
DNBOUND STATISTICS	555	12	13	580	1653	2004	3657	655	3	2	660	2171	
TOTAL	1122	28	28	1178	3064	4324	7388	1327	5	6	1338	4936	
EHSWORTH LOCK & DAM AUX 1		XXX											
UPBOUND STATISTICS	157	416	72	545	107	119	226	280	230	14	524	125	
DNBOUND STATISTICS	147	426	97	670	145	60	205	298	247	11	556	65	
TOTAL	304	842	169	1315	252	179	431	578	477	25	1080	191	
DASHIELDS LOCK & DAM		XXX											
UPBOUND STATISTICS	473	0	8	481	1234	2273	3512	566	0	1	567	2650	
DNBOUND STATISTICS	472	0	6	478	1663	1723	3446	546	0	1	547	1947	
TOTAL	945	0	14	959	2897	4061	6958	1112	0	2	1114	4597	
DASHIELDS LOCK & DAM AUX 1		XXX											
UPBOUND STATISTICS	196	236	77	509	247	345	592	402	240	11	653	407	
DNBOUND STATISTICS	173	236	104	513	260	290	550	405	225	9	639	311	
TOTAL	369	472	181	1022	507	635	1142	807	465	20	1292	719	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 1/85 THROUGH 5/85
INSTITUTE FOR WATER RESOURCES

EBC #	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER		MONTHS REPORTED									
				4/85			5/85			6/85			
RIVER/LOCK NAME	TOWS RECDN	VESSL OTHER	VESSL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGES COMMER	LOCKGES RECDN	LOCKGES OTHER	LOCKGES TOTAL	TONNAGE (KTONS)		
(NAU, OPN, ETC)													
OHIO RIVER													
MONTGOMERY LOCK & DAM	***												
UPBOUND STATISTICS	540	7	37	584	1239	2710	3949	394	3	0	700	3307	
DNBOUND STATISTICS	537	7	39	582	206	1898	3907	439	7	1	697	2194	
TOTAL	1077	14	76	1157	3248	4608	7856	1383	10	4	1397	5502	
MONTGOMERY LOCK & DAM AUX 1	***												
UPBOUND STATISTICS	37	203	55	304	39	11	50	111	118	1	230	16	
DNBOUND STATISTICS	37	216	74	327	25	18	43	115	129	4	248	19	
TOTAL	84	419	129	531	64	29	93	226	247	5	478	36	
NEW CUMBERLAND LOCK & DAM	***												
UPBOUND STATISTICS	350	1	3	353	336	3293	3619	351	0	2	353	4457	
DNBOUND STATISTICS	317	2	3	322	2347	1065	3412	318	1	0	319	1317	
TOTAL	6-7	3	4	675	2683	4348	7031	669	1	2	672	5774	
NEW CUMBERLAND LF & DAM AUX 1	***												
UPBOUND STATISTICS	169	206	40	415	225	408	634	211	115	5	331	507	
DNBOUND STATISTICS	211	244	32	487	557	267	824	250	122	6	378	315	
TOTAL	380	450	72	902	783	675	1458	461	237	11	709	823	
PIKE ISLAND LOCK & DAM	***												
UPBOUND STATISTICS	403	11	14	428	299	4085	4384	412	8	1	421	5687	
DNBOUND STATISTICS	392	12	6	410	2922	1451	4373	395	8	0	403	1852	
TOTAL	795	23	20	838	3221	5536	8757	807	16	1	824	7540	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			4/85				5/85				6/85			
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)		
OHIO RIVER														
PIKE ISLAND LOCK & DAM AUX 1	***													
UPBOUND STATISTICS	98	81	44	223	218	113	331	150	64	2	216	132		
DNBOUND STATISTICS	131	99	42	272	221	139	360	179	78	3	260	146		
TOTAL	229	180	86	495	439	252	691	329	142	5	476	279		
HANNIBAL LOCKS & DAM	***													
UPBOUND STATISTICS	363	5	4	372	685	3577	4262	365	5	1	371	4936		
DNBOUND STATISTICS	350	2	0	352	2011	2156	4167	350	2	3	355	2947		
TOTAL	713	7	4	724	2696	5733	8429	715	7	4	726	7883		
HANNIBAL LOCKS & DAM AUX 1	***													
UPBOUND STATISTICS	47	30	6	83	103	68	171	53	25	3	86	67		
DNBOUND STATISTICS	63	36	9	108	123	84	207	72	30	6	108	77		
TOTAL	110	66	15	191	226	152	378	125	55	14	194	165		

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED													
			4/85			5/85			6/85							
LOCK PROCESSING TIME (MIN.)																
APPROACH		ENTRY		CHAMBER		EXIT		: VESSELS		DELAYED		DELAY		DELAY		
MIN : AVG : MAX		MIN : AVG : MAX		MIN : AVG : MAX		MIN : AVG : MAX		TOWS		TIME		AVG		MAX		
														(ALL VSLS)		
ALLEGHENY RIVER																
LOCK & DAM 2	1	4	33	1	4	20	5	7	37	1	5	36	169	5385	10.2	304
LOCK & DAM 3	1	5	45	1	4	29	5	7	17	1	4	37	138	4872	9.3	180
LOCK & DAM 4	1	5	30	1	4	21	5	7	20	1	5	35	110	2752	4.9	111
LOCK & DAM 5	1	3	15	1	2	10	5	8	20	1	3	13	44	494	1.2	58
LOCK & DAM 6	1	4	10	2	4	10	8	8	10	2	4	10	38	476	1.2	65
LOCK & DAM 7	3	4	13	2	3	5	6	7	10	1	3	10	1	13	0.5	29
LOCK & DAM 8	1	4	14	2	3	5	5	7	8	2	3	5	2	21	0.1	22
LOCK & DAM 9	1	2	5	1	1	10	9	10	14	1	1	10	0	0	0.0	13
MONONGAHELA RIVER																
LOCK & DAM 1	1	12	53	1	6	38	5	11	48	1	8	60	375	17308	16.4	331

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED													
			4/85						5/85							
			LOCK PROCESSING TIME (MIN.)				JESSELS				TIME		AVG			
			APPROACH	ENTRY	CHAMBER	EXIT	MIN	Avg	Max	Min	Max	TIME	TIME	TIME	TIME	
			MIN	Avg	Max	Min	MIN	Avg	Max	Min	Avg	Max	Min	Max	ALL VES	
MONONGAHELA RIVER																
LOCK & DAM 2 AUX 1	1	7	33	1	2	17	5	6	16	1	2	10	31	418	1.3	135
LOCK & DAM 3	1	10	38	2	5	20	6	9	20	2	6	35	722	25664	15.9	675
LOCK & DAM 3 AUXILIARY 1	1	6	33	1	2	11	5	3	18	1	2	23	30	1363	4.4	311
LOCK & DAM 4	1	11	52	1	6	20	5	10	27	2	3	33	483	16753	14.5	237
LOCK & DAM 4 AUXILIARY 1	1	9	53	1	3	20	5	9	19	1	4	58	35	11757	28.3	949
MAXWELL LOCK & DAM	1	8	28	1	6	21	5	10	23	1	7	23	83	1200	1.8	36
MAXWELL LOCK & DAM AUX 1	1	11	40	1	7	23	7	11	40	2	9	26	59	906	1.4	45
LOCK & DAM 7	1	5	47	1	5	31	5	6	26	1	9	54	506	32806	29.6	1124
LOCK & DAM 8	1	5	57	1	4	23	5	6	40	1	10	60	361	25356	21.3	1328
MORGANTOWN LOCK & DAM	1	5	10	4	5	15	5	10	20	5	5	10	4	63	0.3	28

TABLE 3

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES**

OEROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED															
			4/85				5/85				6/85							
			LOCK PROCESSING TIME (MIN.)															
			APPROACH			ENTRY			CHAMBER			EXIT						
			MIN	AVG	MAX	MIN	Avg	Max	MIN	Avg	Max	MIN	Avg	Max				
			:	:	:	:	:	:	:	:	:	VESEL'S	TIME	DELAY				
			TOWS	TOWS	TOWS	TOWS	TOWS	TOWS	TOWS	TOWS	TOWS	TOWS	Avg	MAX				
			(ALL VSLS)															
MONONGAHELA RIVER																		
WILDEBRAND LOCK & DAM			2	6	20	1	3	10	10	15	35	1	4	13	7	132	1.3	35
OPEKISKA LOCK & DAM			1	4	17	1	2	12	5	10	20	1	3	12	2	26	0.7	23
OHIO RIVER																		
EMSWORTH LOCK & DAM			1	12	55	2	7	31	8	13	43	2	10	57	509	30764	27.4	458
EMSWORTH LOCK & DAM AUX 1			1	7	38	1	3	15	6	8	18	1	3	14	57	1122	3.6	56
DASHIELDS LOCK & DAM			1	13	55	2	9	70	5	11	32	1	12	58	484	49475	52.3	1865
DASHIELDS LOCK & DAM AUX 1			1	7	72	1	3	65	5	6	22	1	4	40	180	156442	423.9	2781
MONTGOMERY LOCK & DAM			1	10	59	1	10	40	5	13	60	1	13	60	605	48098	44.6	655
MONTGOMERY LOCK & DAM AUX 1			1	4	54	1	3	21	5	9	20	1	4	17	5	49	0.5	26

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED													
			4/85			5/85			6/85							
			LOCK PROCESSING TIME (MIN.)			: VESSELS			TIME			AVG				
APPROACH																
			MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX		
OHIO RIVER																
NEW CUMBERLAND LOCK & DAM	2	20	60	1	7	32	5	14	42	2	12	51	168	6773	10.1	240
NEW CUMBERLAND LK & DAM AUX	1	12	96	1	3	27	5	11	47	1	9	46	84	10550	27.7	642
PIKE ISLAND LOCK & DAM	1	14	59	1	11	33	5	15	41	1	10	27	256	10322	11.9	131
PIKE ISLAND LOCK & DAM AUX 1	1	9	59	1	4	24	6	14	28	1	7	21	24	503	2.1	49
HANNIBAL LOCKS & DAM	1	16	57	1	10	47	6	15	36	1	11	45	202	8262	11.5	262
HANNIBAL LOCKS & DAM AUX 1	1	12	40	1	5	12	10	14	26	1	6	23	8	134	1.2	30

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K2	JACKSONVILLE	SOUTH ATLANTIC	4/85	5/85	6/85
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)			
CROSS FLA BRG CNL	11-HENRY HOLLAND BUCKMAN LOCK	0600/0084/	15.0		
	12-EUREKA LOCK	0600/0084/	15.0		
	13-INGLIS LOCK	0600/0084/	15.0		
CANAVERAL HARBOR	21-CANAVERAL LOCK	0600/0090/	15.0		
OKEECHOBEE WATERWAY	01-ST LUCIE LOCK & DAM	0250/0050/	14.0		
	02-MOORE HAVEN LOCK	0250/0050/	11.0		
	03-ORTONA LOCK & DAM	0250/0050/	12.0		
	04-W P FRANKLIN LCK & CTRL STRCT	0400/0056/	14.0		
	05-PORT MAYACA LOCK	0400/0056/	14.0		
OKLAWAHA RIVER	31-MOSS BLUFF LOCK & DAM	0156/0030/	555.0		

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC KS	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED 4/85	MONTHS REPORTED 5/85	MONTHS REPORTED 6/85
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
ALABAMA-COOSA RIVERS	11-CLAIBORNE LOCK & DAM		0600/0084/ 12.0		
	12-MILLERS FERRY LOCK & DAM		0600/0084/ 12.0		
	13-JONES BLUFF LOCK & DAM		0600/0084/ 12.0		
APLCH/CHTC/FLNT RI	21-JIM WOODRUFF LOCK & DAM		0450/0082/ 12.0		
	22-GEORGE W ANDREWS LOCK & DAM		0450/0082/ 12.0		
	23-WALTER F GEORGE LOCK & DAM		0450/0082/ 12.0		
BLKWAR/TOMBIGBEE RI	01-COFFEEVILLE LOCK		0600/0110/ 12.0		
	02-DEMOPOLIS LOCK & DAM		0600/0110/ 12.0		
	03-WARRIOR LOCK & DAM		0600/0110/ 12.0		
	04-WILLIAM BACON OLIVER LK & DM		0460/0095/ 12.0		
	05-HOLT LOCK & DAM		0600/0110/ 12.0		
	06-JOHN HOLLIS BANKHEAD LK & DM		0600/0110/ 12.0		
PEARL RIVER	31-LOCK 1		0310/0065/ 9.0		
	32-LOCK 2		0310/0065/ 9.0		
	33-LOCK 3		0310/0065/ 9.0		
TENN TOMBIGBEE WATERWAY	41-GAINESVILLE LOCK & DAM		0600/0110/ 12.0		
	42-ALICEVILLE LOCK & DAM		0600/0110/ 12.0		
	43-COLUMBUS LOCK & DAM		0600/0110/ 12.0		
	44-ABERDEEN LOCK & DAM		0600/0110/ 12.0		
	45-LOCK A		0600/0110/ 12.0		
	46-LOCK B		0600/0110/ 12.0		
	47-LOCK C		0600/0110/ 12.0		
	48-LOCK D		0600/0110/ 12.0		
	49-LOCK E		0600/0110/ 12.0		
	50-BAY SPRINGS		0600/0110/ 12.0		

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC No	DISTRICT NAME SAVANNAH	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED 4/85	5/85	6/85
RIVER SAVANNAH RIVER	LOCK/LOCK NAME 01-NEW SAVANNAH BLUFF LOCK & DAM		LEN/WID/DRAFT (FT/FT/FT) 0360/0056/ 12.0		

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LOCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
K7	WILMINGTON	SOUTH ATLANTIC	4/85 5/85 6/85
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)	
CAPE FEAR RIVER	01-LOCK & DAM 1	0200/0040/ 10.0	
	02-LOCK & DAM 2	0200/0040/ 10.0	
	03-WILLIAM O HUSKE LOCK & DAM	0300/0040/ 10.0	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC K7	DISTRICT NAME WILMINGTON	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED											
			4/85				5/85				6/85			
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)		
CAPE FEAR RIVER														
LOCK & DAM 1		XXX												
UPBOUND STATISTICS	22	10	0	32	0	22	22	41	7	1	49	21		
DNBOUND STATISTICS	22	20	0	42	21	1	22	39	13	1	53	1		
TOTAL	44	30	0	74	21	23	44	80	20	2	102	22		
LOCK & DAM 2		XXX												
UPBOUND STATISTICS	21	7	1	29	0	21	21	41	5	0	46	21		
DNBOUND STATISTICS	22	15	1	38	22	0	22	41	10	0	51	0		
TOTAL	43	22	2	67	22	21	43	82	15	0	97	21		
WILLIAM D HUSKE LOCK & DAM		XXX												
UPBOUND STATISTICS	21	9	0	30	0	21	21	21	4	1	26	20		
DNBOUND STATISTICS	23	17	0	40	22	1	23	23	7	1	31	1		
TOTAL	44	26	0	70	22	22	44	44	11	2	57	21		

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

FRC #	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED															
			APPROACH			ENTRY			CHAMBER			EXIT			VESSELS			
			MIN	AUG	MAX	MIN	AUG	MAX	MIN	AUG	MAX	MIN	AUG	MAX	TOWS	TOWS	(ALL VSL)	
CAPE FEAR RIVER																		
LOCK & DAM 1			4	4	5	5	5	10	5	12	15	4	5	10	1	5	0.1	5
LOCK & DAM 2			5	5	10	5	5	10	5	13	25	5	5	25	40	200	4.6	10
WILLIAM D HUSKE LOCK & DAM			5	5	5	5	5	5	25	29	40	5	5	5	7	25	0.7	5

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
L2	SACRAMENTO	SOUTH PACIFIC	4/85	5/85	6/85
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
SCRMNTO DWSHF CHNL	01-BARGE CANAL LOCK		0640/0086/ 23.0		

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD
NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
M3	GALVESTON	SOUTHWESTERN	4/85	5/85	6/85
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
GULF INTRACOASTAL	11-COLORADO RIVER EAST LOCK		1200/0075/ 15.0		
	12-COLORADO RIVER WEST LOCK		1200/0075/ 15.0		
	13-BRAZOS EAST GATE		9999/0075/ 15.0		
	14-BRAZOS WEST GATE		9999/0075/ 15.0		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC M3	DISTRICT NAME GALVESTON	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED											
			4/85				5/85				6/85			
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	(NAV, OPN, ETC)	
GULF INTRACOASTAL														
COLORADO RIVER EAST LOCK		***												
UPBOUND STATISTICS	956	1878	242	3076	460	1567	2027	210	0	911	1121	3350		
DNBOUND STATISTICS	1068	1838	130	3036	1592	594	2186	113	0	1011	1124	1043		
TOTAL	2024	3716	372	6112	2052	2161	4213	323	0	1922	2245	4393		
COLORADO RIVER WEST LOCK		***												
UPBOUND STATISTICS	902	1958	208	3068	423	1536	1959	35	0	1034	1069	3287		
DNBOUND STATISTICS	1007	2600	119	3726	1528	533	2061	27	1	1053	1081	967		
TOTAL	1909	4558	327	6794	1951	2069	4020	62	1	2087	2150	4255		
BRAZOS EAST GATE		***												
UPBOUND STATISTICS	1029	511	317	1857	482	1601	2083	3	0	1112	1115	3202		
DNBOUND STATISTICS	1178	566	257	2001	1658	639	2297	2	0	1226	1228	1059		
TOTAL	2207	1077	574	3858	2140	2240	4380	5	0	2338	2343	4262		
BRAZOS WEST GATE		***												
UPBOUND STATISTICS	1011	501	237	1749	454	1607	2061	4	0	1059	1063	3194		
DNBOUND STATISTICS	1133	447	236	1816	1668	580	2248	1	0	1159	1160	993		
TOTAL	2144	948	473	3565	2122	2187	4309	5	0	2218	2223	4188		

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC M3	DISTRICT NAME GALVESTON	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED																	
			4/85			5/85			6/85											
			LOCK PROCESSING TIME (MIN.)									: VESSELS			TIME	Avg	Delay			
			APPROACH	ENTRY	CHAMBER	EXIT	: MIN AVG MAX			: MIN AVG MAX			: MIN AVG MAX			TOWS	TOWS	Delay (all USLs)		
GULF INTRACOASTAL																				
COLORADO RIVER EAST LOCK	1	2	28	1	1	24	1	1	34	1	1	2	1021	4007	1.9	477				
COLORADO RIVER WEST LOCK	1	1	26	1	1	6	1	1	36	1	1	12	1908	4722	2.4	2495R				
BRAZOS EAST GATE	1	1	61	1	1	67	1	0	4	1	1	61	2199	3934	1.7	227				
BRAZOS WEST GATE	1	1	31	1	1	29	1	0	9	1	1	11	2138	4709	2.1	551				

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EFDC M4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED 4/85	MONTHS REPORTED 5/85	MONTHS REPORTED 6/85
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
ARKANSAS RIVER	01-NORRELL LOCK & DAM		0600/0110/ 12.0		
	02-LOCK & DAM 2		0600/0110/ 12.0		
	03-LOCK & DAM 3		0600/0110/ 12.0		
	04-LOCK & DAM 4		0600/0110/ 12.0		
	05-LOCK & DAM 5		0600/0110/ 12.0		
	06-DAVID O TERRY LOCK & DAM		0600/0110/ 12.0		
	07-MURRAY LOCK & DAM		0600/0110/ 12.0		
	08-TOAD SUCK FERRY LOCK & DAM		0600/0110/ 12.0		
	09-LOCK & DAM 9		0600/0110/ 12.0		
	10-DARDANELLE LOCK & DAM		0600/0110/ 12.0		
	11-OZARK LOCK & DAM		0600/0110/ 12.0		
	13-LOCK & DAM 13		0600/0110/ 12.0		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC M4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN		MONTHS REPORTED									
					4/85			5/85			6/85		
RIVER/LOCK NAME	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGEES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)	
ARKANSAS RIVER													
NORRELL LOCK & DAM	***												
UPBOUND STATISTICS	146	36	20	202	232	463	695	65	31	115	211	660	
DNBOUND STATISTICS	146	42	21	209	194	482	676	65	41	117	223	611	
TOTAL	292	78	41	411	426	945	1371	130	72	232	434	1271	
LOCK & DAM 2	***												
UPBOUND STATISTICS	145	42	18	205	232	456	688	161	35	17	213	661	
DNBOUND STATISTICS	147	48	19	214	201	491	692	166	37	18	221	608	
TOTAL	292	90	37	419	433	947	1380	327	72	35	434	1269	
LOCK & DAM 3	***												
UPBOUND STATISTICS	137	76	8	221	201	457	659	142	53	52	247	657	
DNBOUND STATISTICS	130	77	12	219	194	459	653	136	56	59	253	581	
TOTAL	267	153	20	440	396	916	1312	278	111	111	500	1236	
LOCK & DAM 4	***												
UPBOUND STATISTICS	135	40	3	178	195	454	649	138	33	32	203	646	
DNBOUND STATISTICS	130	55	14	199	203	431	634	141	45	39	225	541	
TOTAL	265	95	17	377	398	885	1283	279	78	71	428	1187	
LOCK & DAM 5	***												
UPBOUND STATISTICS	110	99	6	215	95	296	493	116	87	29	232	560	
DNBOUND STATISTICS	114	108	3	225	171	304	475	116	92	27	235	471	
TOTAL	224	207	9	440	362	702	968	232	179	56	467	1031	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC M4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN		MONTHS REPORTED									
				4/85			5/85			6/85			
RIVER/LOCK NAME	TOWS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
(NAV, OPN, ETC)													
ARKANSAS RIVER													
DAVID D TERRY LOCK & DAM	***												
UPBOUND STATISTICS	114	241	5	360	97	397	494	119	180	14	313	560	
DNBOUND STATISTICS	113	265	9	387	172	302	474	117	198	13	328	473	
TOTAL	227	506	14	747	269	699	968	236	378	27	641	1034	
MURRAY LOCK & DAM	***												
UPBOUND STATISTICS	98	420	8	526	104	321	425	107	240	9	356	456	
DNBOUND STATISTICS	97	429	9	535	138	263	401	105	248	11	364	416	
TOTAL	195	849	17	1061	242	584	826	212	488	20	720	873	
TOAD SUCK FERRY LOCK & DAM	***												
UPBOUND STATISTICS	93	42	4	139	104	317	421	96	20	10	126	445	
DNBOUND STATISTICS	93	51	3	147	140	258	398	95	32	11	138	418	
TOTAL	186	93	7	286	244	575	819	191	52	21	264	864	
LOCK & DAM 9	***												
UPBOUND STATISTICS	88	42	1	131	103	302	405	90	19	13	122	425	
DNBOUND STATISTICS	90	45	1	136	128	258	386	90	29	13	132	410	
TOTAL	178	87	2	267	231	560	791	180	48	26	254	836	
DARDANELLE LOCK & DAM	***												
UPBOUND STATISTICS	109	64	9	182	121	304	425	117	41	11	169	433	
DNBOUND STATISTICS	110	76	6	192	125	274	399	115	52	11	178	460	
TOTAL	219	140	15	374	246	578	824	232	93	22	347	893	

TABLE I

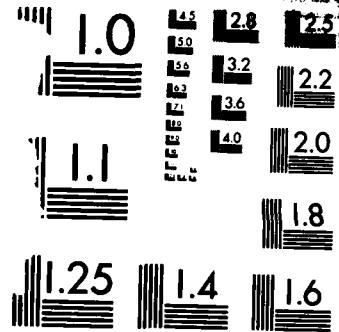
PERFORMANCE MONITORING REPORT - THE QUARTERLY REPORT
FOR THE PERIOD 1 APRIL THROUGH 30 JUNE
INSTITUTE FOR WATER RESOURCES

ERIC #4	DISTRICT NAME LITTLE ROCK	SUB-DISTRICT NAME SOUTHWESTERN	MONTHS REPORTED											
			4/85				5/85				6/85			
RIVER/LOCK NAME	TOWS	VESEL RECD/H	VESEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGE FULL	BARGES TOTAL	LONGEE COMMEF	LONGEE RECRD/H	LONGEE OTHER	LONGEE TOTAL	TONNAGE WAT. DRY. ETC.		
ARKANSAS RIVER														
DAZARK LOCK & DAM	***													
UPBOUND STATISTICS	63	79	0	161	104	273	377	63	55	17	148	394		
DNBOUND STATISTICS	81	84	0	165	101	252	361	83	57	11	151	400		
TOTAL	144	163	0	326	205	525	738	146	112	21	299	797		
LOCK 8-9 & 10	***													
UPBOUND STATISTICS	125	183	9	317	101	344	445	115	75	29	221	432		
DNBOUND STATISTICS	122	151	8	320	101	252	433	127	75	22	222	404		
TOTAL	247	334	17	637	202	596	878	242	150	51	443	837		

AD-A165 637 PERFORMANCE MONITORING SYSTEM SUMMARY OF LOCK
STATISTICS FOR APRIL - JUNE 1985(U) CORPS OF ENGINEERS
FORT BELVOIR VA WATER RESOURCES SUPPORT CENTER
UNCLASSIFIED M V FLEMING ET AL. NOV 85 WRSC-85-SR-6 F/G 13/2 NL

2/2





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

PAGE 91

EROC DISTRICT NAME
M4 TITLE EROD

DEUTSCHE NAME

SOUTHWESTERN

MONTHS REPORTED

5/85

6/85

APPROACH	LOCK PROCESSING TIME (MIN.)												: VESSELS TOWS	DELAYED TIME TOWS	DELAY AVG TOWS	DELAY MAX (ALL VSLS)				
	ENTRY			CHAMBER			EXIT													
	MIN	AVG	MAX	MIN	Avg	Max	MIN	Avg	Max	MIN	Avg	Max								
<u>APPROACHES FROM RIVER</u>																				
MORRELL LOCK & DAM	1	6	28	1	5	27	1	5	15	1	5	30	5	145	0.4	50				
LOCK & DAM 2	1	9	70	1	9	90	5	10	25	1	9	50	35	1133	3.8	238				
LOCK & DAM 3	1	7	90	1	6	28	5	8	40	1	8	40	24	841	3.1	102				
LOCK & DAM 4	1	6	47	1	6	35	5	9	35	1	8	38	44	1054	3.9	103				
LOCK & DAM 5	1	7	27	1	3	44	5	9	30	1	8	38	57	619	3.6	63				
DAVID D TERRY LOCK & DAM	1	8	53	1	5	34	5	7	25	1	6	57	33	837	3.6	68				
MURRAY LOCK & DAM	1	5	105	1	4	36	5	9	34	1	5	41	34	709	3.6	95				
TOAD SUCK FERRY LOCK & DAM	1	8	43	1	8	25	5	8	36	1	8	35	44	596	3.2	45				
LOCK & DAM 2	1	11	35	1	8	29	5	11	40	1	8	34	15	259	1.4	50				
DARCANELLE LOCK & DAM	1	10	44	1	6	31	5	12	27	1	7	38	186	1396	6.3	57				

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC M4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED															
			4/85			5/85			6/85									
			LOCK PROCESSING TIME (MIN.)									: DELAYED VESSELS						
APPROACH		ENTRY		CHAMBER		EXIT		: VESSELS			TIME	Avg	Max					
MIN		AVG		MAX		MIN		MIN			TOWS	TOWS	(ALL VSLs)					
ARKANSAS RIVER																		
OZARK LOCK & DAM			2	9	30	1	8	25	5	11	20	1	8	35	129	1279	7.7	95
LOCK & DAM 13			1	6	30	1	7	37	5	10	30	1	6	35	44	882	3.5	100

TABLE I

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

INSTITUTE FOR WATER RESOURCES			
EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
MS	TULSA	SOUTHWESTERN	4/85 5/85

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ARKANSAS RIVER	21-W D MAYO LOCK & DAM	0600/0110/ 14.0
	22-ROBERT S KERR LOCK & DAM &RES	0600/0110/ 14.0
	23-WEBBERS FALLS LOCK & DAM	0600/0110/ 14.0
	24-CHOUTEAU LOCK & DAM	0600/0110/ 14.0
	25-NEWT GRAHAM LOCK & DAM	0600/0110/ 14.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 4/85 THROUGH 6/85
INSTITUTE FOR WATER RESOURCES

EROC M5	DISTRICT NAME TULSA	DIVISION NAME SOUTHWESTERN			MONTHS REPORTED								
					4/85			5/85			6/85		
RIVER/LOCK NAME	TOWS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LCKGES COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
ARKANSAS RIVER													
W D MAYO LOCK & DAM		XXX											
UPBOUND STATISTICS	88	153	7	248	130	211	341	91	53	7	151	310	
DNBOUND STATISTICS	89	171	14	274	83	262	345	94	60	7	161	402	
TOTAL	177	324	21	522	213	473	686	185	113	14	312	712	
ROBERT S KERR LOCK & DAM & RES		XXX											
UPBOUND STATISTICS	90	107	4	201	132	213	345	93	76	6	175	317	
DNBOUND STATISTICS	89	118	10	217	83	267	350	95	86	9	190	411	
TOTAL	179	225	14	418	215	480	695	188	162	15	365	728	
WEBBERS FALLS LOCK & DAM		XXX											
UPBOUND STATISTICS	71	61	2	134	51	211	262	71	50	5	126	314	
DNBOUND STATISTICS	67	62	8	137	109	145	254	73	52	6	131	251	
TOTAL	138	123	10	271	160	356	516	144	102	11	257	565	
CHOUTEAU LOCK & DAM		XXX											
UPBOUND STATISTICS	70	32	4	106	49	178	227	75	27	4	106	250	
DNBOUND STATISTICS	66	37	8	111	87	128	215	74	34	3	111	219	
TOTAL	136	69	12	217	136	306	442	149	61	7	217	469	
MENT GRAHAM LOCK & DAM		XXX											
UPBOUND STATISTICS	70	20	5	95	49	179	228	74	18	3	95	252	
DNBOUND STATISTICS	66	26	9	101	86	128	214	74	23	3	100	219	
TOTAL	136	46	14	196	135	307	442	148	41	6	195	471	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 4/85 THROUGH 6/85
 INSTITUTE FOR WATER RESOURCES

EROC NS	DISTRICT NAME TULSA	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED															
			4/85			5/85			6/85			: DELAYED	DELAY	DELAY	DELAY			
LOCK PROCESSING TIME (MIN.)															TOWS	TOWS	(ALL VSLs)	
APPROACH	ENTRY	CHAMBER	EXIT	:	VESSELS	TIME	Avg	Max	TOWS	TOWS	(ALL VSLs)	MIN	Avg	Max	MIN	Avg	Max	
MIN	Avg	Max	:	MIN	Avg	Max	MIN	Max	MIN	Avg	Max	MIN	Avg	Max	MIN	Avg	Max	
ARKANSAS RIVER																		
W D MAYO LOCK & DAM	1	9	30	1	7	40	5	9	30	1	8	40	9	239	1.3	140		
ROBERT S KERR LOCK & DAM & RE	1	5	26	1	6	41	5	14	30	1	7	39	11	246	1.3	64		
WEBBERS FALLS LOCK & DAM	1	10	30	1	7	46	5	17	36	1	7	32	77	1608	11.6	610		
CHOUTEAU LOCK & DAM	1	7	29	1	6	24	8	14	30	2	7	27	26	118	0.8	71		
NEWT GRAHAM LOCK & DAM	1	9	23	1	7	26	7	13	23	2	11	40	13	215	1.5	72		

Appendix B

Glossary

Draft: This is not a physical lock dimension. It is compared with new data before it is added to the central library to ensure that vessel drafts are not recorded improperly.

Tows: Only tows with barges are included with this figure. Tows without barges (light boats) and other commercial vessels are counted as 'other vessels.'

Other vessels: All vessels other than tows with barges and recreational vessels.

Commercial lockages: The number of lockages for which the prime mover is a tow, a light boat, or another commercial vessel.

Recreational lockages: The number of lockages during which there are only recreational vessels using a lock.

Other lockages: The number of lockages during which the prime mover is a government vessel, a government contracted vessel (such as a dredge) or an unidentified type of vessel. Also included in this category are navigable and open pass lockages.

Total lockages: A lockage includes all lock activity necessary to process a tow and is counted only once when more than one vessel uses the lock. Thus, both cuts of a double cut lockage (e.g. only part of the tow will fit in the lock and it is necessary to process the tow in two pieces) count as a single lockage together and the count increases by only one when two tows are processed during a single lockage.

Processing time: Only the times needed to process tows with barges are included in these statistics.

Delayed vessels: Number of tows experiencing delay between arrival time and the time the lock is ready to process them.

Average delay: Average time of delay for all tows.

Maximum delay: Maximum delay time for vessels. This figure may reflect a single, extraordinary circumstance and should be evaluated accordingly.

DTIC

END

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